

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

T.B.C. : SBVP-A-GKS

Test Booklet Series

Serial



1015073

TEST BOOKLET
Paper I
(GENERAL STUDIES)

Time Allowed : Two Hours

Maximum Marks : 100

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write **anything else** on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. Which one of the following sources contains tartaric acid ?
 - (a) Lemon juice
 - (b) Orange juice
 - (c) Tamarind paste
 - (d) Vinegar

2. Which one among the following statements regarding acids and bases is **not** correct ?
 - (a) A conjugate base of a strong acid is a weak base.
 - (b) In aqueous solution, the hydroxide ion is hydrated to give several ionic species like H_3O_2^- , H_5O_3^- and H_7O_4^- etc.
 - (c) AlCl_3 is an electron deficient compound, and can act as a Lewis base.
 - (d) Fluoride ion acts as a Lewis base as it can donate any one of its four electron lone pairs.

3. Which one of the following experiments explains the wave nature of electromagnetic radiation ?
 - (a) Black-body radiation
 - (b) Photoelectric effect
 - (c) Rutherford's scattering experiment
 - (d) Diffraction of light

4. Which one among the following is the correct ground state electronic configuration of Cr atom ?
 - (a) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^4 4s^2$
 - (b) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$
 - (c) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^6 4s^0$
 - (d) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^3 4s^2$

5. Who among the following scientists developed the Modern Periodic Table ?
 - (a) Henry Moseley
 - (b) Dmitri Ivanovich Mendeleev
 - (c) John Alexander Newlands
 - (d) Johann Döbereiner

6. Which one of the following blocks of elements is called 'Representative elements' ?
 - (a) s-block elements only
 - (b) f-block elements only
 - (c) d-block elements only
 - (d) p-block elements together with s-block elements

7. Which of the following statements regarding Mount Kilimanjaro in Africa is/are correct ?
 1. It is situated on the Equator.
 2. It is the highest free standing mountain in the world.

Select the answer using the code given below :

 - (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2

8. Aral Sea in Central Asia is situated along which of the following two countries ?
 - (a) Kazakhstan and Kyrgyzstan
 - (b) Kazakhstan and Uzbekistan
 - (c) Uzbekistan and Turkmenistan
 - (d) Uzbekistan and Kyrgyzstan

9. Which of the following statements regarding Galápagos Islands in the Pacific Ocean is/are correct ?

1. They are formed due to volcanic activity.
2. They are part of the South American nation Peru.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

10. The ancient city of Taxila is situated in which one among the following provinces of Pakistan ?

- (a) Baluchistan
- (b) Khyber Pakhtunkhwa
- (c) Punjab
- (d) Sindh

11. The Prime Meridian (zero degree longitude) does **not** pass through which of the following country/countries ?

1. England
2. France
3. Portugal
4. Scotland

Select the correct answer using the code given below :

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 and 4
- (d) 3 only

12. Which one of the following processes describes the movement of particles or molecules from a region of higher concentration to a region of lower concentration ?

- (a) Diffusion
- (b) Osmosis
- (c) Plasmolysis
- (d) Deplasmolysis

13. Which among the following correctly shows the pathway of water movement in a root ?

- (a) Pericycle → Endodermis → Cortex → Epidermis
- (b) Epidermis → Pericycle → Endodermis → Cortex
- (c) Epidermis → Endodermis → Cortex → Pericycle
- (d) Epidermis → Cortex → Endodermis → Pericycle

14. After few days of sowing of maize seeds in the soil, irrespective of their position, the radicle always grows downwards, whereas the coleoptile always grows upwards. This phenomenon is known as :

- (a) Phototropism
- (b) Hydrotropism
- (c) Chemotropism
- (d) Geotropism

15. Which one of the following is the technique of joining parts of two plants to form a composite plant ?

- (a) Layering
- (b) Grafting
- (c) Cutting
- (d) Budding

16. Which one of the following statements is/are correct for a vascular bundle in which xylem and phloem are jointly situated along the same radius ?

1. These are called conjoint vascular bundles.
2. Cambium may be present in such vascular bundles.
3. Conjoint vascular bundles are always of closed type.

Select the answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

17. Match List I with List II and select the correct answer using the code given below the Lists :

<i>List I</i> (Book)	<i>List II</i> (Author)
P. Eighteen Fifty-seven	1. S.N. Sen
Q. Civil Rebellion in the Indian Mutinies (1857 – 1859)	2. R.C. Majumdar
R. The Sepoy Mutiny and the Revolt of 1857	3. S.B. Chaudhuri
S. Awadh in Revolt, 1857 – 1858	4. Rudrangshu Mukherjee

Code :

	P	Q	R	S
(a)	1	2	3	4
(b)	4	3	2	1
(c)	4	2	3	1
(d)	1	3	2	4

18. Which among the following statements about Vijayanagara are correct ?

1. Colin Mackenzie was the first Surveyor General of India to visit Vijayanagara.
2. John Marshall was the first to take detailed photographs of the site.
3. James Burgess was the first to undertake conservation of Hampi.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 and 2

19. Match List I with List II and select the correct answer using the code given below the Lists :

<i>List I</i> (Traveller)	<i>List II</i> (Country)
P. Seydi Ali Reis	1. Morocco
Q. Ibn Battuta	2. Turkey
R. Peter Mundy	3. Portugal
S. Duarte Barbosa	4. England

Code :

	P	Q	R	S
(a)	2	1	4	3
(b)	3	4	1	2
(c)	3	1	4	2
(d)	2	4	1	3

20. Consider the following statements about Chlorofluorocarbons (CFCs) :

1. CFCs remain inert in the troposphere but slowly diffuse into the stratosphere.
2. CFCs in the upper atmosphere are subjected to UV radiations, generating free radical chlorine that immediately reacts with O_3 to form a radical called chlorine monoxide (ClO).
3. Each ClO can initiate a series of chemical reactions, leading to the destruction of the ozone layer.

How many of the statements given above is/are correct ?

- (a) 1
- (b) 2
- (c) 3
- (d) None

21. Nitrogen cycle is one of the most important microorganisms-mediated chemical reactions in aquatic and soil environments. In this context consider the following statements :

1. Nitrogen fixation is the process of oxidising NH_3 to NO_3^- .
2. Nitrification process causes reduction of NO_3^- and NO_2^- , to NO_2^- , followed by recycling of N_2 to the atmosphere.
3. Denitrification converts molecular N_2 into a fixed form as an organic nitrogen.

How many of the statements given above is/are correct ?

- (a) 1
- (b) 2
- (c) 3
- (d) None

22. Consider the following statements about different biomes :

1. Tropical Savanna Biome is a tropical grassland with scattered drought-resistant trees.
2. Temperate Deciduous Forest Biome is a high altitude region in the Himalayas.
3. Temperate Coniferous Forest Biome is found in very dry environment where temperature ranges from very cold to very hot.
4. Tundra Biome is found in polar regions and characterised by the absence of trees, dwarf plants and wet, spongy, and rough upper ground surface.

Which of the statements given above are correct ?

- (a) 1 and 2 only
- (b) 1, 2 and 4
- (c) 2 and 4 only
- (d) 1, 3 and 4

23. Nucleus $^{240}_{92}U$, which has a binding energy per nucleon as 7.6 MeV, disintegrates into two nuclei of $^{119}_{50}Sn$. Take $^{119}_{50}Sn$ elements atomic mass number as 120 and binding energy per nucleon as 8.4 MeV. Which one among the following is the correct value of the energy released in the disintegration process ?

- (a) 192 MeV
- (b) 190 MeV
- (c) 188 MeV
- (d) 3840 MeV

24. A frictionless pulley has a rope of negligible mass passing over it. Blocks of mass 15 kg and 5 kg are attached at the two ends of the rope and held stationary. When the masses are released to move freely, their speed in m s^{-1} , after the rope has slipped by 0.25 m over the pulley, is closest to : (take $g = 10.0 \text{ m s}^{-2}$)
- 5.0
 - 2.2
 - 1.6
 - 1.2
25. An electromagnetic wave $\vec{E} = \vec{E}_0 e^{i[k_0(3x + 4y) - \omega t]}$ travelling in air is incident on the $x - z$ plane of a glass slab. The glass slab has a refractive index of 1.5. Which one among the following is the correct direction of propagation of the transmitted electromagnetic wave ?
- $0.4 \hat{i} + 0.2 \sqrt{21} \hat{j}$
 - $0.4 \hat{i} - 0.2 \sqrt{21} \hat{j}$
 - $0.4 \hat{i} + \sqrt{21} \hat{j}$
 - $0.4 \hat{i} - \sqrt{21} \hat{j}$
26. Two dielectric media D1 and D2 have dielectric constants 3 and 2, respectively. They are separated by $x - z$ plane. A uniform electric field $\vec{E} = 3 \hat{i} + 2 \hat{j}$ exists in D1. Which one among the following is the correct electric field in D2 at the xz plane ?
- $\vec{E} = 2 \hat{j}$
 - $\vec{E} = 3 \hat{i} + 3 \hat{j}$
 - $\vec{E} = 3 \hat{i} - 2 \hat{j}$
 - $\vec{E} = 2 \hat{i} + 3 \hat{j}$
27. At a given point in space, the electric field associated with an electromagnetic wave is given by $\vec{E} = (2 \hat{i} - 1.5 \hat{j}) e^{i[k_0(3x + 4y) - \omega t]}$. At the same point, which one among the following is the correct value of the unit vector (\hat{B}) of the magnetic field associated with this electromagnetic wave ?
- $-\hat{k}$
 - $1.5 \hat{i} + 2 \hat{j}$
 - $1.5 \hat{i} - 2 \hat{j}$
 - $3 \hat{i} - 4 \hat{j}$
28. As per the Constitution of India, which one among the following statements is correct ?
- The Comptroller and Auditor General of India (CAG) is appointed by the President of India and remains in office during the pleasure of the President of India.
 - Administrative expenses of the office of the CAG are charged upon the Contingency Fund of India.
 - The reports of the CAG relating to the accounts of the Union and States are submitted to the President of India.
 - The President of India shall cause the reports of the CAG relating to the accounts of the Union to be laid before each House of Parliament.

29. Which of the following statements is/are correct as per the Constitution of India ?
1. The Parliament of India has the power to make provisions with respect to delimitation of constituencies.
 2. The validity of a law made by the Parliament of India with respect to delimitation of constituencies shall not be called in question in a court.
- Select the answer using the code given below :
- (a) 1 only
 - (b) 2 only
 - (c) Both 1 and 2
 - (d) Neither 1 nor 2
30. Consider the following statements :
1. A special provision was made in the Constitution of India by the Constitution (Eighty-ninth Amendment) Act, 2003 to establish the National Commission for Scheduled Tribes.
 2. National Commission for Backward Classes, National Commission for Minorities and National Commission for Scheduled Castes are constitutional bodies.
 3. National Commission for Women is not a constitutional body.
- Which of the statements given above is/are **not** correct ?
- (a) 1, 2 and 3
 - (b) 1 and 3 only
 - (c) 2 only
 - (d) 3 only
31. Which one among the following is the correct arrangement in increasing order of ionic radii of O^{2-} , F^- , Na^+ , Mg^{2+} ?
- (a) $Mg^{2+} < Na^+ < F^- < O^{2-}$
 - (b) $O^{2-} < F^- < Na^+ < Mg^{2+}$
 - (c) $Mg^{2+} < Na^+ < O^{2-} < F^-$
 - (d) $O^{2-} < F^- < Mg^{2+} < Na^+$
32. Which one among the following elements has the most negative electron gain enthalpy ?
- (a) F
 - (b) Cl
 - (c) P
 - (d) S
33. Which one among the following is the correct arrangement of molecules in increasing order of their dipole moment ?
- (a) $NF_3 < NH_3 < BF_3$
 - (b) $BF_3 < NH_3 < NF_3$
 - (c) $BF_3 < NF_3 < NH_3$
 - (d) $NF_3 < BF_3 < NH_3$
34. Which one of the following represents the correct combination of shape and hybridisation of PF_5 ?
- (a) Square pyramidal, dsp^3
 - (b) Trigonal bipyramidal, dsp^3
 - (c) Square pyramidal, sp^3d
 - (d) Trigonal bipyramidal, sp^3d

35. Which one of the following conditions is *not* correct for the combination of atomic orbitals to form molecular orbitals ?
- The combining atomic orbitals must have same or nearly the same energy.
 - The combining atomic orbitals must show lateral overlap with each other.
 - The combining atomic orbitals must have the same symmetry about the molecular axis.
 - The combining atomic orbitals must overlap to the maximum extent.
36. What is the colour of anhydrous CuSO_4 ?
- White
 - Blue
 - Green
 - Yellow
37. Which one of the following is the IUPAC name of $[\text{Ag}(\text{NH}_3)_2][\text{Ag}(\text{CN})_2]$?
- Diammine dicyanidodisilver(I)
 - Diammine dicyanidodiargentate(I)
 - Diamminesilver(I) dicyanidoargentate(I)
 - Dicyanidoargentate(I) diamminesilver(I)
38. Which one of the following types of isomerisms is shown by $[\text{CoCl}_2(\text{en})_2]\text{Cl}$?
- Optical isomerism only
 - Geometrical isomerism only
 - Both ionisation and geometrical isomerisms
 - Both geometrical and optical isomerisms
39. Which one of the following Ni(II) complexes is diamagnetic and has tetrahedral geometry ?
- $[\text{NiCl}_4]^{2-}$
 - $[\text{Ni}(\text{CO})_4]$
 - $[\text{Ni}(\text{NH}_3)_4]^{2+}$
 - $[\text{Ni}(\text{CN})_4]^{2-}$
40. Which one among the following islands in South-East Asia is situated between Wallace's Line and Weber's Line that are related to Bio-diversity ?
- Borneo
 - Celebes (Sulawesi)
 - Java
 - New Guinea

41. Which of the following statements regarding Tropical Deciduous forests in India is/are correct ?

1. They are the most widespread forests in India.
2. They spread over regions which receive annual rainfall between 70 – 200 cm.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

42. Which of the following statements regarding groundnut cultivation in India is/are correct ?

1. Groundnut is a Rabi crop.
2. Gujarat is an important state for Groundnut cultivation.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

43. Which two of the following states are the leading producers of Bauxite in India as per the Annual Report of the Ministry of Mines 2022 – 23 ?

1. Odisha
2. Chhattisgarh
3. Jharkhand
4. Gujarat

Select the answer using the code given below :

- (a) 1 and 2
- (b) 1 and 3
- (c) 1 and 4
- (d) 2 and 4

44. As per the India State of Forest Report 2021, which of the following states has maximum percentage of its geographical area under forest cover ?

- (a) Madhya Pradesh
- (b) Manipur
- (c) Meghalaya
- (d) Mizoram

45. Many fruits burst with a sudden jerk because of which the seeds are scattered a few yards from the parent plant. This type of dispersal of seeds is known as :

- (a) Anemochory
- (b) Hydrochory
- (c) Autochory
- (d) Zoochory

46. Which one among the following diseases is characteristically and specifically linked to asbestosis ?
- Liver fibrosis
 - Lung fibrosis
 - Mesothelioma
 - Pleural effusion
47. Which one among the following diseases does **not** yet have any effective vaccine ?
- Chicken pox
 - Typhoid
 - Viral Hepatitis C
 - Human Papilloma virus
48. Which one among the following is living and non-nucleated at maturity ?
- Sieve tubes
 - Companion cells
 - Collenchyma
 - Parenchyma
49. Which one of the following examples of genetic-disorder or disease is due to the numerical abnormalities in the sex chromosome ?
- Turner's syndrome
 - Down's syndrome
 - Haemophilia
 - Alkaptonuria
50. The two medieval period canals originating from the Sutlej and Yamuna rivers and joining at Karnal were made at the orders of :
- Alauddin Khalji
 - Mohammad Tughlaq
 - Firuz Tughlaq
 - Ibrahim Lodi
51. Who among the following has written three works on the science of music called *Sangitaraja*, *Sangita Mimansa* and *Sudha Prabandha* ?
- Tansen
 - Ibrahim Adil Shah
 - Amir Khusro
 - Maharana Kumbha of Mewar
52. Which one among the following temples, constructed by Queen Loka Mahadevi in Pattadakal, is a UNESCO World Heritage site ?
- Kailasanatha Temple
 - Virupaksha Temple
 - Brihadishvara Temple
 - Srirangam Temple
53. Which among the following statements is/are correct ?
- Nalayira Divyaprabandham is an anthology of Alvar saints' compositions.
 - Tevaram is the collection of Tamil Shaiva hymns.
 - Nalayira Divyaprabandham is also described as the Tamil Veda.
- Select the answer using the code given below :
- 1 and 2 only
 - 2 and 3 only
 - 1, 2 and 3
 - 1 only

54. Who among the following is the writer of the *Kirtana-Ghosha* ?
- (a) Vatsadasa
 - (b) Madhavdev
 - (c) Rama Saraswati
 - (d) Srimanta Sankaradev
55. Which one of the following propositions from the book 'History of British India' by James Mill is correct ?
- (a) The tax payable by the zamindars should not be more than thirty percent of the total produce
 - (b) The rights of cultivators should be protected by the State
 - (c) The State should remain as the landlord and that each peasant should hold land directly from the State as its tenant
 - (d) Sufficient advances should be given to the peasants so that they are encouraged to cultivate cash crops
56. In April 1908, Prafulla Chaki and Khudiram Bose threw a bomb at a carriage in Muzaffarpur which they believed to be occupied by Kingsford. Which among the following correctly describes the profession of Kingsford ?
- (a) Revenue Officer
 - (b) Judge
 - (c) Police Officer
 - (d) Army Personnel
57. Which of the following statements about Photochemical Smog is/are correct ?
1. It irritates the eyes.
 2. It leads to cracking of rubber.
 3. It causes considerable damage to plant life.
- Select the answer using the code given below :
- (a) 1, 2 and 3
 - (b) 2 and 3 only
 - (c) 1 and 2 only
 - (d) 3 only
58. Which one among the following trace elements is **not** highly toxic ?
- (a) Arsenic
 - (b) Chromium
 - (c) Copper
 - (d) Mercury

59. Consider the following combinations of lapse rate in relation to atmospheric region :

1. Troposphere : Negative lapse rate
2. Stratosphere : Negative lapse rate
3. Mesosphere : Negative lapse rate
4. Thermosphere : Positive lapse rate

How many of the combinations given above is/are correct ?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

60. In which sphere of the atmosphere is harmful ultraviolet (UV) radiation from the Sun absorbed ?

- (a) Mesosphere
- (b) Thermosphere
- (c) Troposphere
- (d) Stratosphere

61. Which of the following is a true fish ?

- (a) Jellyfish
- (b) Silverfish
- (c) Starfish
- (d) Sea horse

62. Which one of the following sequences of electromagnetic spectrum is correct in terms of ascending wavelength order ?

- (a) X-rays – Gamma rays – UV – Infrared – Visible – Microwaves – Radio and TV waves
- (b) Gamma rays – X-rays – UV – Infrared – Visible – Microwaves – Radio and TV waves
- (c) Gamma rays – X-rays – UV – Visible – Infrared – Microwaves – Radio and TV waves
- (d) UV – Gamma rays – X-rays – Visible – Infrared – Microwaves – Radio and TV waves

63. Which one of the following pairs of principal chemical constituents in water and their source is correct ?

- (a) Ca : Amphiboles, Feldspars, Gypsum
- (b) NO_3 : Apatite, Fluorite, Mica
- (c) CO_3 : Feldspars, Clay minerals
- (d) F : Dolomite, Gypsum, Anhydrite

64. Which one among the following group of organisms produces their own food ?

- (a) Autotrophs
- (b) Herbivores
- (c) Carnivores
- (d) Decomposers

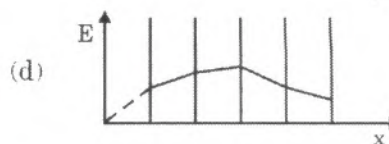
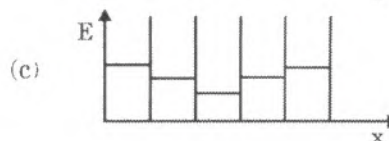
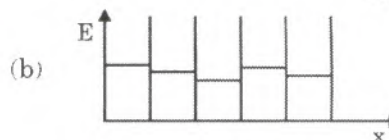
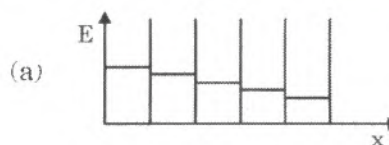
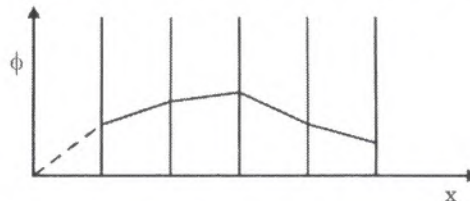
65. Which one of the following is the appropriate sequential order of ecological succession ?

- (a) Invasion – Nudation – Competition and coaction – Reaction – Stabilization
- (b) Nudation – Invasion – Competition and coaction – Reaction – Stabilization
- (c) Nudation – Invasion – Reaction – Competition and coaction – Stabilization
- (d) Invasion – Nudation – Reaction – Competition and coaction – Stabilization

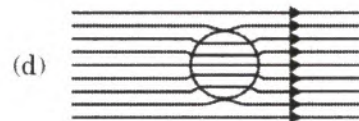
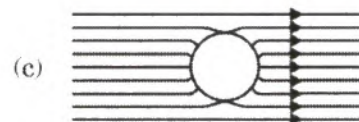
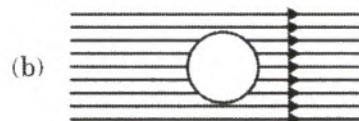
66. The Chipko Movement was initiated under the leadership of Sunderlal Bahuguna around the year :

- (a) 1951
- (b) 1971
- (c) 1981
- (d) 1991

67. In a region, the electric potential varies as shown in the figure. Which one among the following is the correct representation of the magnitude of the associated electric field ?



68. Which one among the following is the correct representation of the electric field when a conducting spherical shell is placed between the plates of a parallel plate capacitor ?



69. A cup of tea is placed at a table, and the room temperature is 35°C . The tea cools from 90°C to 70°C in 5 minutes. Which one among the following is the correct time taken for the tea to cool from 70°C to 50°C ?
- (a) 5 minutes
 (b) 7 minutes
 (c) 9 minutes
 (d) 11 minutes
70. An ice bullet of temperature -10°C is fired upon an object. The bullet spends 20% of its kinetic energy in penetrating into the object and remaining kinetic energy is spent into melting the bullet at 0°C . The latent heat of fusion of ice is $3.4 \times 10^5 \text{ J kg}^{-1}$ and its specific heat capacity is $2000 \text{ J kg}^{-1} \text{ K}^{-1}$. Which one among the following is the correct initial speed of the bullet ?
- (a) $300\sqrt{10} \text{ m s}^{-1}$
 (b) 3600 m s^{-1}
 (c) $300\sqrt{5} \text{ m s}^{-1}$
 (d) 900 m s^{-1}
71. Molar heat capacity at constant pressure of a diatomic gas is $3.5 R$, where R is universal gas constant. The gas is heated by providing energy of 1400 J and is allowed to expand isobarically. Which one among the following represents the work done by the gas in this process ?
- (a) 400 J
 (b) 4900 J
 (c) 560 J
 (d) 280 J
72. The eyepiece of a telescope is a system of two biconvex lenses L_1 and L_2 , of focal length 30 cm and 20 cm respectively, with a separation of 2 cm between them. Lens L_2 faces the eye. This eyepiece is to be replaced by a single bi-convex lens L . Which one among the following is the correct combination of the focal length (F in cm) of the lens L and its distance from the position of lens L_1 (δ in cm) ?
- (a) $F = 12.5$ and $\delta = 1.17$
 (b) $F = 12.5$ and $\delta = 1.15$
 (c) $F = 11.5$ and $\delta = 1.17$
 (d) $F = 11.5$ and $\delta = 1.15$
73. Consider the following statements :
1. The President of India may specify a 'race' to be treated under the Scheduled Caste category for all purposes under the Constitution of India.
 2. The President of India may specify a 'tribe' to be treated under the Scheduled Caste category for all purposes under the Constitution of India.
 3. Parliament by law can include a caste or tribe in the list of Scheduled Castes.
- How many of the above statements is/are correct ?
- (a) 1
 (b) 2
 (c) 3
 (d) None

74. Which one among the following statements is **not** correct as per the Constitution of India ?

- (a) National Commission for Minorities appoints a Special Officer for linguistic minorities.
- (b) It shall be the duty of the Union to develop the Hindi language as a medium of expression for all the elements of the composite culture of India.
- (c) The word 'Hindustani' is mentioned in the Constitution with reference to the enrichment of the Hindi language.
- (d) Every state shall endeavour to provide adequate facilities for instruction in the mother-tongue at the primary stage of education to children belonging to minority groups.

75. Given below are four legal terms/maxims. Which one of them means 'no man (person) shall be condemned unheard' ?

- (a) *Autrefois convict*
- (b) *Non bis in idem*
- (c) *Habeas Corpus*
- (d) *Audi Alteram Partem*

76. Which of the following statements as per the Third Schedule of the Constitution of India is/are correct ?

- 1. A Member of Parliament is free to take the oath or affirmation by 'swearing in the name of God'.
- 2. Judge of the Supreme Court has to take the oath or affirmation by 'swearing in the name of the Constitution of India'.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

77. Which of the following pairs of Forest Research Centres and their locations are correctly matched ?

- 1. Forest Research Centre for Eco-Rehabilitation : Prayagraj
- 2. Forest Research Centre for Livelihood Extension : Shillong
- 3. Forest Research Centre for Skill Development : Bhopal
- 4. Forest Research Centre for Coastal Ecosystems : Visakhapatnam

Select the answer using the code given below :

- (a) 1 and 3
- (b) 1 and 4
- (c) 2 and 3
- (d) 2 and 4

78. Which of the following is **not** an important centre of silk textile industry in India ?

- (a) Baramulla
- (b) Bankura
- (c) Kolar
- (d) Jamnagar

79. Which of the following pairs is/are **not** correctly matched ?

(Ramsar site) (State)

- 1. Kolleru lake Telangana
- 2. Satkosia gorge Odisha
- 3. Kanjli lake Punjab
- 4. Pala wetland Mizoram

Select the answer using the code given below :

- (a) 1 only
- (b) 1 and 2
- (c) 2 and 3
- (d) 4 only

80. Which of the following tiger reserves is/are **not** situated in the state of Rajasthan ?

- 1. Mukundra Hills
- 2. Ramgarh Vishdhari
- 3. Kawal
- 4. Bhadra

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2
- (c) 3 and 4
- (d) 4 only

81. Which of the following statements regarding Urban Population in India as per Census 2011 is/are correct ?

- 1. More than 31% of the total population lives in towns.
- 2. The number of towns was more than 7500.

Select the answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

82. Which one among the following is **not in-situ** conservation ?

- (a) Wildlife sanctuary
- (b) Botanical garden
- (c) Biosphere reserve
- (d) National park

83. Mangroves represent :

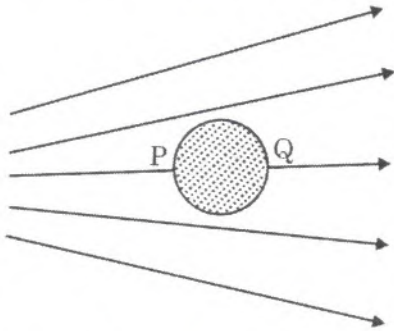
- (a) Epiphytic vegetation
- (b) Salt-tolerant vegetation
- (c) Floodplain vegetation
- (d) Playa vegetation

84. Which one of the following types of coral reefs are developed along the edges of continental shelves and separated by lagoon ?

- (a) Patch reefs
- (b) Fringing reefs
- (c) Barrier reefs
- (d) Atoll reefs

85. Which one of the following is the correct sequence of a typical soil profile from top to bottom ?
- Topsoil, Humus, Eluviation zone, Subsoil, Weathered parent material
 - Subsoil, Topsoil, Humus, Weathered parent material, Eluviation zone
 - Humus, Subsoil, Topsoil, Eluviation zone, Weathered parent material
 - Humus, Topsoil, Eluviation zone, Subsoil, Weathered parent material
86. Fold Mountains are formed in which type of tectonic settings ?
- Divergent
 - Convergent
 - Transform
 - Rifting
87. Which one of the following is the thinnest layer of the Earth ?
- Inner Core
 - Outer Core
 - Mantle
 - Crust
88. A planar, irregular shaped object has a mass of 2 kg. Its moment of inertia along the two orthogonal axes in the plane of the object are 3 kg m^2 and 4 kg m^2 , respectively. The moment of inertia of the object along an axis perpendicular to the plane and passing through a point 0.5 m away from its centre of mass is represented by I . Which one among the following is the correct value of I ?
- 7.5 kg m^2
 - 7 kg m^2
 - 5 kg m^2
 - 1 kg m^2
89. A ball of mass 100 g falls freely from a height of $h = 20 \text{ m}$ and hits the ground at a speed of $1.4 \sqrt{gh}$. Take $g = 10 \text{ m s}^{-2}$. Which one among the following is the correct value of the work done on the ball by air friction ?
- 0.4 J
 - 0.5 J
 - 0.3 J
 - 1 J
90. A particle moves in a circle of radius 4 m. Its linear speed is given by $4\sqrt{3}t$, where t is the time measured in seconds. At $t = 1 \text{ s}$, the angle made by the resultant acceleration $-\hat{r}$ with direction $(+\hat{r})$ (is the radial direction) is given by ϕ . Which one among the following is the correct value of ϕ ?
- $\tan^{-1}\left(\frac{1}{\sqrt{3}}\right)$
 - $\tan^{-1}\left(\frac{1}{\sqrt{2}}\right)$
 - $\tan^{-1}\left(\frac{2}{\sqrt{3}}\right)$
 - $\tan^{-1}(\sqrt{3})$

96. A small metallic sphere is held in a non-uniform electrostatic field as shown in the figure. Also shown are two points P and Q on the surface of the sphere. Which one of the following statements is true for the sphere ?



- (a) Sphere does not experience a force in the field.
- (b) Surface charge density at point P is positive while at point Q is negative.
- (c) Sphere experiences a force towards the left.
- (d) Sphere experiences a force towards the right.
97. Which of the following statements is *not* correct with respect to the types of questions asked in the Lok Sabha ?
- (a) A 'Starred Question' is the one to which only a written answer is given.
- (b) A 'Short Notice Question' is the one which relates to a matter of urgent public importance.
- (c) An 'Unstarred Question' is the one to which an oral answer is not given.
- (d) No supplementary question can be asked on an 'Unstarred Question'.

98. Which of the following statements is/are *not* correct about the parliamentary practice of asking Questions in the Parliament of India ?

1. The first hour of every sitting in both the Houses of Parliament is devoted to asking questions, referred to as the 'Question Hour'.
2. Questions are generally asked by the Members of Parliament from the Ministers.
3. 'Half-an-Hour Discussions' on matters arising out of questions already answered can be held only in the Lok Sabha.
4. Questions cannot be addressed to a private member.

Select the answer using the code given below :

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 and 4
- (d) 2 and 4

99. Consider the following statements with respect to 'Motions' in the Parliament of India :

1. A Censure Motion must specify the ground on which it is based.
2. A Censure Motion can be moved even against an individual minister.
3. A No-confidence Motion can be initiated in either House of the Parliament. However, a government will fall only if the No-confidence Motion is passed in the Lok Sabha.
4. A No-confidence Motion must specify the charges against the Council of Ministers on the basis of which the Motion is to be based.

How many of the above statements is/are correct ?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

100. Which one among the following statements about the United Nations (UN) is **not** correct ?

- (a) All the main bodies of the United Nations, such as the General Assembly, the Security Council, the Trusteeship Council, etc. were established with the founding of the UN in 1945.
- (b) The United Nations System comprises not only the main bodies, but also many funds, programmes and specialized agencies.
- (c) Specialized agencies of the UN System are funded by both voluntary and assessed contributions.
- (d) The programmes and funds of the UN System are financed only through assessed contributions.

101. Consider the following statements with reference to a Report titled 'The Paths to Equal', published in 2023, prepared by 'UN Women' and 'UNDP' (United Nations Development Programme) :

- 1. This Report introduces two new indices : Women's Empowerment Index (WEI) and Global Gender Parity Index (GGPI).
- 2. Less than 1% of women and girls live in a country with high women's empowerment and a small gender gap.

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

102. Arrange the following events in the correct chronological order :

- 1. Passage of the Anti-defection law by the Parliament of India
- 2. Mizoram was made a state
- 3. Voting age was reduced from 21 to 18
- 4. Maithili was added to the Eighth Schedule of the Constitution of India

Select the answer using the code given below :

- (a) 2, 3, 1, 4
- (b) 1, 3, 2, 4
- (c) 4, 3, 2, 1
- (d) 1, 2, 3, 4

103. Which of the following statements about 'Good Governance Index' (GGI) is/are **not** correct ?

- 1. The first Good Governance Index, prepared by the Department of Administrative Reforms and Public Grievances (DARPG) in partnership with the Centre for Good Governance, Hyderabad, was brought out in 2019.
- 2. The framework of assessment includes some sectors and indicators. GGI 2021 excluded 'Agriculture and Allied sectors' from the framework of assessment.
- 3. According to GGI 2021, Jharkhand is one of the few states that has performed badly.
- 4. Union Territories are not under the purview of GGI.

Select the answer using the code given below :

- (a) 1 and 2
- (b) 2, 3 and 4
- (c) 2 only
- (d) 4 only

- 104.** Which one of the following institutions is *not* in the 'World Bank Group' ?
- (a) International Centre for Settlement of Investment Disputes (ICSID)
 - (b) Multilateral Investment Guarantee Agency (MIGA)
 - (c) Investment Policy Framework for Sustainable Development (IPFSD)
 - (d) International Finance Corporation (IFC)
- 105.** Which one among the following is a source of non-renewable energy ?
- (a) Geothermal energy
 - (b) Nuclear energy
 - (c) Biomass
 - (d) Hydropower
- 106.** Biosphere Reserve Programme was initiated by :
- (a) UNEP
 - (b) WWF
 - (c) Greenpeace
 - (d) MAB Programme of UNESCO
- 107.** Which one among the following statements regarding Ecotone is correct ?
- (a) It represents a transitional region between two ecosystems.
 - (b) It represents a region which is ecologically perfect.
 - (c) It represents a region which is ecologically barren of organisms.
 - (d) It represents an ecosystem containing deep marine organisms.
- 108.** Which one among the following biogeographic zones of India covers the largest area ?
- (a) Trans-Himalayas
 - (b) Desert
 - (c) Semi-arid region
 - (d) Himalayan region
- 109.** Keibul Lamjao National Park is located in which one of the following wetlands ?
- (a) Chilika Lagoon of Odisha
 - (b) Loktak Lake of Manipur
 - (c) Deepor Beel of Assam
 - (d) Gurudongmar Lake of Sikkim
- 110.** According to IUCN Red list, a 'vulnerable' species is one which :
- (a) is likely to become endangered in the near future.
 - (b) has a very high risk of getting extinct in the wild.
 - (c) is known only to survive in the wild.
 - (d) is known only to survive in captivity, or as a naturalized population outside its historic range.

111. Which of the following statements with respect to milk production in India is/are **not** correct ?

1. From 2013 – 14 to 2021 – 22, the milk production in India has registered an increase of more than 50 percent.
2. Although the milk production over the above period has increased, per capita availability of milk has decreased.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

112. Which one of the following is the world governing body for Badminton recognized by the International Olympic Committee and the International Paralympic Committee ?

- (a) World Badminton League
- (b) Badminton World Federation
- (c) International Badminton Federation
- (d) International Federation of Badminton

113. Which of the following was the official song for the FIFA Women's World Cup 2023 ?

- (a) Lets Get Together Now
- (b) The Time of Our Lives
- (c) Live It Up
- (d) Do It Again

114. Arrange the following countries in the descending order of their rank in the World Happiness Report, based on a three-year average 2020 – 2022, published by the Sustainable Development Solutions Network :

1. Israel
2. United Kingdom
3. United States of America
4. Switzerland

Select the answer using the code given below :

- (a) 1, 4, 3, 2
- (b) 4, 3, 2, 1
- (c) 2, 4, 3, 1
- (d) 3, 4, 2, 1

115. Which one of the following is **not** correct about the UNESCO Creative Cities of Literature ?

- (a) Kozhikode is India's first UNESCO City of Literature
- (b) UNESCO launched it in 2004
- (c) Edinburgh was the first UNESCO City of Literature
- (d) There are four cities of India in this list

116. Which one among the following statements about PDMC scheme (Per Drop More Crop) is **not** correct ?

- (a) This scheme focuses on enhancing water use efficiency at farm level through micro-irrigation.
- (b) The cost borne in implementing this scheme is shared by the Central Government and the State Governments in the ratio of 50 : 50.
- (c) It is a Centrally sponsored scheme.
- (d) This scheme is implemented under *Rashtriya Krishi Vikas Yojna*.

117. Which of the following statements about 'Rehydrating the Earth' is/are correct ?

- 1. It is a global campaign for raising consciousness about the water crisis.
- 2. It is an impact-driven campaign that highlights achievements at key global events such as COP28.
- 3. It is a campaign undertaken by a philanthropic organization 'Football for Peace'.

Select the answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 2 only

118. Which of the following statements about GPAI (Global Partnership on Artificial Intelligence) is/are correct ?

- 1. It is a multi-stakeholder initiative, which aims to bridge the gap between theory and practice on AI by supporting cutting edge research.
- 2. The Annual GPAI Summit was held at New Delhi in December 2023.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

119. Which of the following statements about the 'Blue Line' is correct ?

1. It is a learning ecosystem created by the UN System Staff College.
2. It is a line of withdrawal, set by the UN for the purpose of confirming the withdrawal of Israeli forces from the south of Lebanon.

Select the answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

120. In December 2023, the Parliament of India passed a Bill to establish 'the Sammakka Sarakka Central Tribal University' in which one among the following states ?

- (a) Telangana
- (b) Jharkhand
- (c) Chhattisgarh
- (d) Andhra Pradesh

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Serial No.

0064529

TEST BOOKLET
PAPER I
GENERAL STUDIES AND
ENGINEERING APTITUDE

A

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Maximum Marks : 200

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 - (ii) If a candidate gives more than one answer, it will be treated as **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank i.e. no answer is given by the candidate, there will be **no penalty** for that question.

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28. Read the information given below and answer the question :

There is a group of five girls. Hasini is second in height but younger than Madhavi. Pooja is taller than Pranati but younger in age. Madhavi and Pranati are of the same age but Madhavi is tallest among them. Neelam is taller than Pooja and elder to Madhavi.

If they are arranged in the descending order of their ages who will be in fourth position ?

- (a) Neelam
- (b) Hasini
- (c) Pranati
- (d) Data inadequate

29. Read the following information and answer the question :

Seven students P, Q, R, S, T, U and V take a series of tests. No two students get similar marks. V always scores more than P. P always scores more than Q. Each time either R scores the highest and T gets the least, or alternatively S scores the highest and U or Q scores the least.

If V is ranked fifth, which one of the following is correct ?

- (a) S scores the highest
- (b) R is ranked second
- (c) T is ranked third
- (d) Q is ranked fourth

30. A man has a certain number of small boxes to pack into parcels. If he packs 3, 4, 5 or 6 in a parcel, he is left one, if he packs 7 in a parcel, none is left over. What is the number of boxes, he may have to pack ?

- (a) 106
- (b) 301
- (c) 309
- (d) 400

31. Which one of the following transmission media is/are used for the remote control communication for televisions, VCRs, and stereos etc. ?

- (a) Fiber optics
- (b) Fiber cables
- (c) The electromagnetic spectrum
- (d) Unguided infrared and millimeter waves

32. Which one of the following protocols is used to wrap IP packets with the additional feature of multiplexing and de-multiplexing multiple processes using a single IP address ?

- (a) User Datagram Protocol
- (b) Transport Control Protocol
- (c) Internet Protocol
- (d) Point-to-Point Protocol

38. Which of the following issues were addressed while establishing an IT Policy ?

1. Respect of the intellectual rights of others, including trade secrets, copyrights, patents, and trademarks
2. Inappropriate use of IT resources, such as Web surfing, blogging, personal emailing, and other use of computers for purposes other than business
3. The need to protect the security of IT resources through adherence to good security practices, such as not sharing user IDs and passwords, using hard-to-guess passwords, and frequently changing passwords.
4. The use of the computer to intimidate, harass, or insult others through abusive language in emails and by other means.

Select the correct answer using the code given below :

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

39. Which one of the following is a harmful program that resides in the active memory of the computer and duplicates itself without human intervention, often sending copies of themselves to other computers by email ?

- (a) Worms
- (b) Viruses
- (c) Bugs
- (d) Spam

40. Which one of the following attacks is one in which a malicious hacker takes over computers via the Internet and causes them to flood a target site with demands for data and other small tasks ?

- (a) Rootkits
- (b) Distributed Denial-of-Service
- (c) Phishing
- (d) Smishing

41. Which one of the following is a set of programs that enables its user to gain administrator-level access to a computer without the end user's consent or knowledge ?

- (a) Distributed Denial-of-Service
- (b) Phishing
- (c) Smishing
- (d) Rootkit

42. Which one of the following is software and/or hardware that monitor system and network resources and activities, and notify network security personnel when it detects network traffic that attempts to circumvent the security measures of a networked computer environment ?
- (a) An intrusion detection system
 - (b) A protection of evidence and activity logs system
 - (c) A critical internet security threats system
 - (d) An illusion detection system
43. Which one of the following involves for the examination of Internet records to track down the identity of someone who posted in a discussion forum on one Website might search for clues to the poster's identity on Facebook, Twitter, and other online sources ?
- (a) Pornography
 - (b) Internet filter
 - (c) Doxing
 - (d) Internet censorship
44. Which one of the following Acts mandates schools and libraries in India to use some form of technological protection to block computer access to obscene material, pornography, and anything else considered harmful to minors ?
- (a) Telecommunications Act
 - (b) Child Online Protection Act
 - (c) Children's Internet Protection Act
 - (d) Communications Decency Act
45. Which of the following Acts is required for the commercial emailers in sending out messages that advertise a commercial product or service ?
- (a) Controlling the Assault of Non-Solicited Pornography and Marketing Act
 - (b) Communications Assistance for Law Enforcement Act
 - (c) Communications Act of 1934
 - (d) Communications Decency Act
46. What are the three stages in the Development of Professional Identity ?
- (a) Possessing Knowledge, Professional Services, Self-Defining or Integrated Professional
 - (b) Independent Operator, Professional Services, Self-Defining or Integrated Professional
 - (c) Possessing Knowledge, Team-Oriented Idealist, Self-Defining or Integrated Professional
 - (d) Independent Operator, Team-Oriented Idealist, Self-Defining or Integrated Professional

63. Consider the following statements regarding phase diagram rules for the crystal :

1. According to the Gibbs phase rule, the degree of freedom, $(F) = \text{Number of components } (C) + \text{Number of Phases } (P) + 2$.
2. The tie-line rule is applied to determine the compositions of two co-existing phases in a binary phase diagram.
3. In the lever rule, the tie-line at the temperature of interest is treated as a lever arm, with the fulcrum at the overall composition.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

64. Consider the following statements regarding effect of minor elements on steel properties :

1. Sulphur is present in steel either as iron sulphide or manganese sulphide and during the rolling or forging of steel, iron sulphide present in steel gets cracked/teared.

2. Silicon, in the form of ferro-silicon, is used widely as a deoxidant due to its low cost and high efficiency.
3. Silicon opposes the presence of iron oxide (FeO) which is very much detrimental to properties of steel.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

65. Consider the following statements regarding cast iron :

1. Gray cast irons can be classified depending on the shape of graphite that may be present in the form of either flakes or globules.
2. A class of cast iron known as Malleable obtained by treating molten metal by calcium silicide.
3. Meehanite cast irons have graphite nodules but are produced by heat treating white cast irons.

Which of the above statements are NOT correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

66. Consider the following statements regarding the characteristics of covalent compounds and covalent solids :

1. Covalent compounds are soluble in paraffins.
2. Covalent solids do not form closed-packet structures because the covalent bonds are very strong and rigid.
3. The simplest covalent structure is that of diamond which is fairly open and empty and far from close-packed.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

67. Consider the following statements regarding the gas carburizing :

1. Case depth can be obtained accurately.
2. More floor space is required than pack carburizing.
3. Process is rapid as less time is required than in pack carburizing.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

68. Which one of the following statements is NOT correct regarding thermal mass ?

- (a) In solar buildings, it reduces temperature variations between day and night
- (b) It is useful in ordinary buildings as it serves as a reservoir or sink for both heating and cooling
- (c) It provides a means of storing the solar energy that enters through the windows
- (d) The heavier a material is available, then the less thermal mass is available

69. Consider the following statements about ethanol :

1. Ethanol is primarily produced from corn and sugarcane.
2. Ethanol provides a major part of the liquid fuel requirement in Brazil.
3. The production of ethanol accounts for around 90% of the production of biofuels in the world.

Which of the above statements is/are correct ?

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 3 only
- (d) 1 and 2 only

70. Which one of the following statements is NOT correct regarding carbon dioxide ?

- (a) Carbon dioxide is given off when dead organisms and other organic materials decompose
- (b) When volcanoes erupt, they give off carbon dioxide that is stored in the mantle
- (c) Ocean water releases dissolved carbon dioxide into the atmosphere when water temperature rises
- (d) A good amount of carbon in the atmosphere is present as methane gas

71. Match the following lists :

List I	List II
P. Lamarck	1. Evolutionary theory
Q. Lyell	2. Gradual geological processes have gradually shaped Earth's surface
R. Malthus	3. Human population grow faster than the resources they depend on
S. Wallace	4. Inheritance of acquired characteristics

Select the correct answer using the code given below :

- | | P | Q | R | S |
|-----|---|---|---|---|
| (a) | 2 | 1 | 4 | 3 |
| (b) | 4 | 2 | 3 | 1 |
| (c) | 1 | 4 | 3 | 2 |
| (d) | 4 | 3 | 1 | 2 |

72. What is Chaparral ?

- (a) Chaparrals are plants that grow on other plants
- (b) Chaparral is a shrub forest biome dominated by densely-growing evergreen shrubs or small trees, such as scrub oak
- (c) Chaparrals are temperate biomes that consist mainly of grasses
- (d) Chaparrals are aquatic organisms that live on the surface below a body of water

73. The expression of the ability of surfaces to reflect sunlight is known as

- (a) the albedo effect
- (b) the greenhouse effect
- (c) the genshin effect
- (d) the permafrost

83. A plane, extended if necessary, will meet the reference planes in lines, unless it is parallel to any one of them. These lines are called

- (a) Projection lines
- (b) Traces of the plane
- (c) Dimension lines
- (d) Imaginary lines

84. Which of the following are the methods for determining the line of intersection between surfaces of two interpenetrating solids ?

- (a) Line method and cutting plane method
- (b) Line method and box method
- (c) Co-ordinate method and cutting plane method
- (d) Co-ordinate method and box method

85. Which one of the following is used for pyramids and cones in which the true length of the slant edge or the generator is used as radius ?

- (a) Parallel-line development
- (b) Radial-line development
- (c) Triangulation development
- (d) Approximate method

86. Consider the following statements regarding the Global Peace Index 2023 :

1. Iceland has retained its position as the most peaceful country since the inaugural study in 2008.
2. Five out of the top 10 most peaceful countries in the world are located in Europe.

Which of the above statements is/are NOT correct ?

- (a) Both 1 and 2
- (b) 1 only
- (c) 2 only
- (d) Neither 1 nor 2

87. Consider the following statements regarding Henley Passport Index 2023 :

1. Japan holds the title of the world's most powerful passport, granting visa-free access to 192 out of 227 global travel destinations.
2. Three European countries, namely Germany, Italy, and Spain, share the second position, with visa-free access to 190 destinations.

Which of the above statements are NOT correct ?

- (a) Both 1 and 2
- (b) 1 only
- (c) 2 only
- (d) Neither 1 nor 2

88. Consider the following statements :

1. India's Goods and Services Tax collection for the month of June 2023 reached ₹1.61 trillion, according to the Ministry of Finance.
2. India received its highest-ever FDI inflow of US\$83.57 billion in the fiscal year 2021-2022.
3. The net direct tax collection in the current fiscal year has witnessed a significant growth of 16%, reaching ₹4.75 lakh crore, indicating a surge in economic activity.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

89. Consider the following statements regarding Hemis Festival :

1. The Hemis Festival in Ladakh is a renowned religious celebration.
2. The Hemis Festival is dedicated to the birth anniversary of Lord Padmasambhava.
3. Hemis Festival offers a mesmerizing experience of Tibetan Tantric Buddhism.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

90. Ministry of Defence signed contract with which one of the following organizations for Upgraded Super Rapid Gun Mount (SRGM) and other equipment for around 3000 crores ?

- (a) DRDO
- (b) BHEL
- (c) ISRO
- (d) BEL

91. Which of the following cities achieved the Guinness World Records by constructing Single Lane Bituminous Concrete Road and longest Double Decker Viaduct with Highway Flyover & Metro Rail ?

- (a) Amravati and Nagpur
- (b) Mumbai and Ahmedabad
- (c) Hyderabad and Bangalore
- (d) Gautam Buddha Nagar and Ghaziabad

92. Which one of the following Institutions launched Centre of Data for Public Good (CDPG) for multidisciplinary research, bringing together experts from academia, industry, and Government to harness the power of data to benefit the public ?
- (a) IISc
(b) IIT Madras
(c) DRDO
(d) NITI Aayog
93. AstroSat space telescope has crossed a major milestone by detecting 600th Gamma-Ray Burst launched by which one of the following countries ?
- (a) USA
(b) Russia
(c) China
(d) India
94. Which one of the following ships does NOT come under Indian Navy's eight ASW Shallow Water Craft project ?
- (a) Mahanav
(b) Mahe
(c) Malvan
(d) Mangrol
95. Which Union Ministry announced '5G & Beyond Hackathon 2023' aimed at shortlisting India-focused cutting-edge ideas workable beyond products and solutions ?
- (a) Ministry of Science and Technology
(b) Ministry of Communication
(c) Ministry of Micro, Small and Medium Enterprises
(d) Ministry of Electronics and Information Technology
96. "Scheme for Expansion and Modernization of Fire Services in the States" from the allocation of preparedness and Capacity Building Funding Window under the National Disaster Response Fund for strengthening fire services in the States was introduced by which Union Ministry ?
- (a) Ministry of Family and Health Affairs
(b) Ministry of Youth Affairs and Sports
(c) Ministry of Defence
(d) Ministry of Home Affairs
97. Aim of exercise 'Nomadic Elephant' is to build positive military relations, exchange best practices, develop interoperability, bonhomie, camaraderie and friendship between India and which one of the following countries ?
- (a) Bangladesh
(b) Mongolia
(c) Botswana
(d) South Africa

98. Which one of the following is associated with 'SPRINT Challenges' aimed at giving a boost to the usage of 75 new indigenous technologies/products in collaboration with Innovations for Defence Excellence, NIIO and Technology Development Acceleration Cell ?

- (a) Indian Coast Guard
- (b) Indian Air Force
- (c) Indian Army
- (d) Indian Navy

99. To increase the transparency and consumer awareness and handle the customer complaint a 'Centralised Receipt and Processing Centre' and 'Integrated Ombudsman Scheme' has been set up, these two schemes are related to which one of the following institutions ?

- (a) NITI Aayog
- (b) DPIIT
- (c) ISRO
- (d) RBI

100. These days V-CIP is simple, safe and secure. You can complete your V-CIP from wherever you are in India, you only need your PAN card and Aadhaar card. Then, what is the full form of the term "V-CIP" ?

- (a) Venture Capital Identification Process
- (b) Venture Capital Investment Process
- (c) Voice based Customer Identification Process
- (d) Video based Customer Identification Process

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी.बी.सी. : KASC-A-GIP

परीक्षण पुस्तिका अनुक्रम

क्रम संख्या 1000249



परीक्षण पुस्तिका
सामान्य योग्यता और बुद्धिमत्ता
तथा वृत्तिक कौशल

समय : दो घण्टे और तीस मिनट

पूर्णांक : 300

अ नु दे श

1. परीक्षा प्रारम्भ होने के तुरन्त बाद आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर और कुछ न लिखें।
4. इस परीक्षण पुस्तिका में 150 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए केवल एक ही प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. सभी प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर केवल उत्तर-पत्रक अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अन्त में संलग्न हैं।
10. गलत उत्तरों के लिए ऋणात्मक अंकन नहीं है।
11. इस परीक्षण पुस्तिका में दो भाग हैं। भाग-A सामान्य योग्यता और बुद्धिमत्ता के विषय में है और इसमें 75 प्रश्न हैं। भाग-B वृत्तिक कौशल के विषय में है और इसमें 75 प्रश्न हैं। इन सभी 150 प्रश्नों के उत्तर दिए जाने हैं।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

PART—A
GENERAL ABILITY AND INTELLIGENCE

1. Which one among the following metals is **not** a ferromagnetic material?
- (a) Cobalt
(b) Silver
(c) Iron
(d) Nickel
2. What is the length of a simple pendulum, which has a frequency of 0.5 Hz (take $g = 10 \text{ m/s}^2$)?
- (a) 1 m
(b) 2 m
(c) 1.5 m
(d) 3 m
3. Ecotone is a
- (a) diversified ecosystem
(b) transitional ecosystem
(c) transparent ecosystem
(d) stagnation ecosystem
4. Consider the following statements about stem cells :
1. Stem cells have the potential for self-renewal via mitotic cell division.
2. In 1908, James Thomas and his colleagues first derived human embryonic stem cells from donated blastocysts through *in vitro* fertilization.
5. Which of the statements given above is/are correct?
- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
6. The arrangement and distribution of flowers over a plant is called
- (a) flowering
(b) inflorescence
(c) thalamus
(d) aestivation
7. Lichens represent the symbiotic relationships between algae and fungi. The algae component present in lichen is best known as
- (a) mycobiont
(b) phycobiont
(c) prion
(d) symbiont
8. Which of the following are the major contaminants from industries and households that cause cultural eutrophication?
- (a) Chlorine and aldrin
(b) Mercury and nitrates
(c) Nitrates and phosphates
(d) Phosphates and ammonium

8. Fruit formation from the thalamus instead of ovary is known as false fruit. The most common examples are
- (a) orange and mango
 - (b) mango and banana
 - (c) apple and strawberry
 - (d) guava and cherry
9. The process of degradation of humus by some microorganisms and release of inorganic nutrients is known as
- (a) eutrophication
 - (b) mineralization
 - (c) humification
 - (d) stratification
10. Which one of the following human cells is devoid of a nucleus?
- (a) Nerve cell
 - (b) Bone cell
 - (c) Red blood cell
 - (d) White blood cell
11. The chemical formula of washing soda is
- (a) NaHCO_3
 - (b) Na_2CO_3
 - (c) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
 - (d) NaOCl
12. Which one of the following is an example of a physical change?
- (a) Ripening of banana
 - (b) Souring of milk
 - (c) Melting of ice
 - (d) Passing CO_2 gas into water
13. *Rhizobium* is a
- (a) biopesticide
 - (b) biofertilizer
 - (c) bioherbicide
 - (d) mycoherbicide
14. A solution has a pH value around 13.0. The solution may be called
- (a) a strong acid
 - (b) a strong base
 - (c) neutral
 - (d) a weak acid
15. Which one among the following elements has the highest catenation property?
- (a) Silicon
 - (b) Carbon
 - (c) Nitrogen
 - (d) Oxygen

16. Consider the following statements regarding landscape :

1. Bhabar is a narrow belt ranging between 8 km–10 km parallel to the Shiwalik foothills at the break-up of the slope.
2. Bhabar is a belt consisting of old and new alluvial deposited by rivers.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

17. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (Natural disaster)	<i>List-II</i> (Category)
A. Blizzards	1. Terrestrial
B. Soil erosion	2. Atmospheric
C. Tsunami	3. Biological
D. Locusts	4. Aquatic

Code :

- (a) A B C D
 3 4 1 2
- (b) A B C D
 3 1 4 2
- (c) A B C D
 2 1 4 3
- (d) A B C D
 2 4 1 3

18. Which one among the following is **not** a west-flowing river?

- (a) Mahi
- (b) Banas
- (c) Luni
- (d) Sabarmati

19. Which one among the following cities in India is located at the Northernmost latitude?

- (a) Sri Ganganagar
- (b) Nainital
- (c) Gangtok
- (d) Itanagar

20. Consider the following geographical conditions :

Well-drained, rich friable loams containing good deal of minerals, temperature between 15 °C–28 °C and rainfall between 150 cm–250 cm and altitude variations from 600 m–1600 m

Which one among the following crops is suitable under the above conditions?

- (a) Tea
- (b) Coffee
- (c) Coconut
- (d) Cashew nut

21. Manikaran in Himachal Pradesh is better known for

- (a) bioenergy
- (b) paper industry
- (c) food processing industry
- (d) geothermal energy

22. Which one among the following States in India shares a boundary with the most number of States?

- (a) Uttar Pradesh
- (b) Telangana
- (c) Chhattisgarh
- (d) Assam

23. Which one among the following places in India is known for its association with the pharmaceutical industry?

- (a) Ballarpur
- (b) Pimpri
- (c) Sindri
- (d) Mettur

24. Match List-I with List-II and select the correct answer using the code given below the Lists :

List-I
(Tribe)

List-II
(Dominating region)

- | | |
|-----------|-----------------------------------|
| A. Gaddi | 1. Rajasthan |
| B. Munda | 2. Andaman and
Nicobar Islands |
| C. Bhil | 3. Jharkhand |
| D. Jarawa | 4. Himachal Pradesh |

Code :

(a) A B C D
2 3 1 4

(b) A B C D
2 1 3 4

(c) A B C D
4 3 1 2

(d) A B C D
4 1 3 2

25. Which one among the following is **not** an area of Marine West Coast Climate?

- (a) South-Eastern Australia
- (b) North-West Europe
- (c) New Zealand
- (d) North-West Africa

26. Which one among the following statements with reference to the Harappan burial ritual is **not** correct?

- (a) At these burials, the dead were generally laid in pits.
- (b) The burial pits were made in several different ways.
- (c) Ornaments have sometimes been found placed in these burials.
- (d) Harappans did not bury mirrors with the dead.

27. Consider the following statements with reference to Rudramadevi :

1. Rudramadevi is also known as *Raya-gaja-kesari*
2. The inscriptions largely project her as a heroic king not queen.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

28. Who among the following was involved in the formation of the Bombay Presidency Association in 1885?

- (a) Pherozeshah Mehta
- (b) Dadabhai Naoroji
- (c) Allan Octavian Hume
- (d) M. G. Ranade

29. Which among the following was **not** a member of the *Adhishtana Adhikarana* of Kotivarsha in the Gupta period?

- (a) *Sarthavaha*
- (b) *Mahattara*
- (c) *Prathama-kayastha*
- (d) *Prathama-kulika*

30. Consider the following statements about the emergence of national consciousness in India between the 18th and 19th centuries :

1. The spread of printing press and education, and inflow of modern ideas helped Indian regeneration.
2. The reform movements helped develop a sense of national unity among the people.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

31. What is *Hallisalasya* as depicted in Bagh cave paintings?

- (a) A classical dance form
- (b) A folk dance form
- (c) A folk form of theatre
- (d) A percussion music instrument

32. One of the frequent representations of Shri Lakshmi in sculpture is in her *Gaja-Lakshmi* form. Consider the following statements about such *Gaja-Lakshmi* form :

1. The goddess sits or stands on a lotus.
2. She is flanked by two swans.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

33. Consider the following statements about the historical evidence of inscriptions in India :

1. The oldest deciphered inscriptions are in Brahmi and Kharoshthi.
2. The earliest inscriptions in the Tamil language are copper plate grants.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

34. The *Dakshinamurti* (South-facing) form of Shiva represents

- (a) cosmic dancer
- (b) ferocious warrior
- (c) universal teacher
- (d) lord of beasts

35. Consider the following statements about the 'Quit India' Resolution of 1942 :

1. Its text was carefully drafted to make it clear that it put India among the countries at war with the Axis Powers and fully aligned with the Allied Powers (United Nations).
2. It called upon Britain to immediately hand over power to an Indian Provisional Government composed of representatives of all sections of the population.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

- 36.** In India, on which one of the following grounds can the salaries and allowances of persons serving in connection with affairs of the State be reduced?
- (a) Financial emergency
 - (b) Internal disturbance
 - (c) Failure of the constitutional machinery in a State
 - (d) Degradation of public morality

- 37.** Which of the following is/are exclusive power/powers of the Rajya Sabha?
1. The power to initiate a Money Bill
 2. To declare a subject in the State List as a subject of national importance
 3. To impeach the President of India

Select the correct answer using the code given below.

- (a) 1, 2 and 3
- (b) 2 only
- (c) 2 and 3 only
- (d) 1 only

- 38.** If any question arises as to whether a Member of the Parliament has become subject to any of the disqualifications mentioned in Article 102(1), who among the following is empowered to take the final decision?
- (a) The President of India
 - (b) The Prime Minister of India
 - (c) The Speaker of the Lok Sabha
 - (d) The Chief Justice of India

- 39.** What is the quorum for a meeting of the Committee on Petitions of the Rajya Sabha?
- (a) Three
 - (b) Five
 - (c) Seven
 - (d) Ten

- 40.** In which year was a Cabinet resolution passed to replace the Planning Commission with NITI Aayog?
- (a) 2014
 - (b) 2015
 - (c) 2016
 - (d) 2018

41. Which one among the following legal maxims means 'we command'?

(a) *Habeas corpus*

(b) *Mandamus*

(c) *Audi alteram partem*

(d) *Non bis in idem*

42. Which one of the following States of India does **not** have a Legislative Council?

(a) Bihar

(b) West Bengal

(c) Uttar Pradesh

(d) Karnataka

43. Which one among the following is **not** correct as per Article 14 of the Constitution of India?

(a) Equality before law is guaranteed to citizens of India only.

(b) It secures for any person equal protection of laws within the territory of India.

(c) The State shall not deny to any person equality before law within the territory of India.

(d) The State shall not deny to non-citizens equality before law within the territory of India.

44. Which one of the following provisions of the Universal Declaration of Human Rights states, "Everyone has the right to life, liberty and security of person"?

(a) Article 1

(b) Article 2

(c) Article 3

(d) Article 4

45. Which one of the following languages is **not** included in the Eighth Schedule of the Constitution of India?

(a) Bodo

(b) Maithili

(c) Santhali

(d) Ladakhi

61. Narges Mohammadi received the Nobel Prize (2023) in which one of the following fields?

- (a) Peace
- (b) Physiology
- (c) Medicine
- (d) Chemistry

62. Which of the following is/are correct about G20?

- 1. It has no permanent secretariat.
- 2. It was founded on a legally binding international agreement between 20 top industrialized countries.
- 3. Each country is led by a Sherpa.
- 4. Spain is one of the two 'Permanent Invitees' to G20.

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 4 only
- (c) 3 and 4
- (d) 1 and 3

63. Which of the following statements about the National Sports Day is/are correct?

- 1. It is observed on 28th February.
- 2. It coincides with the birth anniversary of Major Dhyan Chand.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

64. Which one of the following represents the correct sequence of countries in ascending order of Gold Medals won in the Asian Games, 2023?

- (a) Japan, India, Republic of Korea
- (b) Japan, Republic of Korea, India
- (c) Republic of Korea, India, Japan
- (d) India, Republic of Korea, Japan

65. Which among the following was/were declared UNESCO's World Heritage Site/Sites in 2023?

- 1. Dholavira, Gujarat
- 2. Hoysala Temple of Belur
- 3. Santiniketan, West Bengal
- 4. Ramappa Temple

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 3 only
- (c) 2, 3 and 4
- (d) 2 and 3 only

66. Consider the following statements about *Sandhayak*, a Survey Vessel Ship, which was delivered to the Indian Navy in December 2023 :

1. One of the primary roles of the Ship is to make a full-scale coastal and deep-water hydrographic survey of ports.
2. The Ship is made to collect oceanographic and geophysical data for defence and civil applications.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

67. Which one among the following books is the winner of the Booker Prize, 2023?

- (a) *The Bee Sting*
- (b) *The House of Doors*
- (c) *A Spell of Good Things*
- (d) *Prophet Song*

68. Which of the following is/are the measure/measures undertaken by the Government of India to promote the production of Compressed Bio-Gas (CBG)?

1. Central financial assistance for setting up of plants for generation of Bio-CNG
2. Inclusion of CBG projects under Priority Sector Lending
3. Concession on customs duty for the import of machinery required for setting up of projects

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 only

69. Which one of the following statements about 'Silkyara Bend-Barkot Tunnel' is **not** correct?

- (a) It is in the State of Uttarakhand.
- (b) It is a part of 'Chardham Mahamarg Pariyojana'.
- (c) It falls along NH-134.
- (d) It is being built by the National Highways Authority of India.

70. Which one among the following statements about VINBAX is **not** correct?

- (a) It is a Joint Military Exercise between India, Vietnam and Bangladesh.
- (b) It was instituted in 2018.
- (c) Its first edition was conducted at Jabalpur.
- (d) In 2023, Indian contingent comprised the Engineer Regiment of the Bengal Engineer Group.

71. Which one among the following statements about Universal Health Coverage (UHC) is **not** correct?

- (a) The United Nations is observing 12th December as the 'International Universal Health Coverage Day' since 2012.
- (b) UHC's motto is that everyone should have access to quality and affordable healthcare.
- (c) It is a central aspect of Sustainable Development Goals.
- (d) Population coverage, service coverage and financial protection are dimensions of UHC.

72. Consider the following statements about the Global River Cities Alliance (GRCA) :

1. It is an alliance of global river cities led by the National Mission for Clean Ganga under the Ministry of Jal Shakti, Government of India.
2. GRCA is a unique alliance covering more than 275 global river cities in 11 countries.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

73. Which one among the following statements with regard to the legal facilities in India is **not** correct?

- (a) Tele-Law is a pre-litigation advice mechanism.
- (b) The President of India is Patron-in-Chief of National Legal Services Authority (NALSA).
- (c) There are dedicated Commercial Courts at various places in India to handle commercial cases.
- (d) Some courts in India are paperless Digital Commercial Courts.

74. Which one among the following States in India has received maximum funds under Sub-Mission on Agriculture Mechanization from 2014–2015 to 2023–2024?

- (a) Andhra Pradesh
- (b) Karnataka
- (c) Uttar Pradesh
- (d) Madhya Pradesh

75. UNFCCC-COP28 was held in which one of the following cities?

- (a) Sharm el-Sheikh
- (b) Dubai
- (c) Glasgow
- (d) Baku

125. Consider the following statements with regard to search under the Code of Criminal Procedure, 1973 :

1. A search warrant remains in force until cancelled by the court issuing it or the same is executed.
2. A search warrant cannot be executed at any place if the place concerned falls outside the jurisdiction of the court issuing it.
3. A search warrant may be issued by the District Magistrate for search of a person who has been confined where such confinement amounts to an offence.

Which of the statements given above is/are correct?

- (a) 1 only (b) 2 only
(c) 2 and 3 (d) 1 and 3

126. Consider the following statements with regard to seizure of property under the Code of Criminal Procedure, 1973 :

1. Any police officer may seize any property which may be suspected to be stolen.
2. Any police officer may seize any property which may be found under circumstances which create suspicion of the commission of any offence.
3. If the value of the property seized is less than one thousand rupees and the person entitled to its possession is absent, the court may direct its sale by auction forthwith.

Which of the statements given above is/are correct?

- (a) 1 only (b) 1 and 2 only
(c) 1, 2 and 3 (d) 3 only

127. Which one among the following statements is **not** correct?

- (a) A Magistrate may issue a warrant to search a document or parcel in the custody of Postal or Telegraph authority.
- (b) A search warrant may be issued when it is not known to the court that a particular document or thing necessary for the purpose of any investigation or trial is in the possession of any person.
- (c) A search warrant may be issued when the court has reason to believe that the person who has been issued summons to produce a document necessary for any investigation or trial will not produce the same.
- (d) A search warrant may be issued for general search of a particular place.

128. Bribery, under the Indian Penal Code, 1860, includes which of the following?

1. Giving a gratification to any person with the object of inducing him to exercise any electoral right or rewarding any person for having exercised any such right
2. Making of a declaration of public policy or making of a promise of public action
3. Giving or accepting a treat in the form of food, drink or entertainment

Select the correct answer using the code given below.

- (a) 1 and 2
(b) 1 and 3
(c) 3 only
(d) 2 and 3

129. Which one of the following is a constitutional body?

- (a) The National Commission for Backward Classes
- (b) The National Commission for Scheduled Tribes
- (c) The National Commission for Protection of Child Rights
- (d) The National Commission for Minorities

130. Which one of the following statements with regard to the Protection of Human Rights Act, 1993 is correct?

- (a) The Chairman and Members of a State Human Rights Commission hold office for a term of five years only.
- (b) The Chairman and Members of a State Human Rights Commission hold office for a term of six years only.
- (c) The Chairman and Members of a State Human Rights Commission hold office for a term of three years and are eligible for reappointment.
- (d) The Chairman and Members of a State Human Rights Commission can be reappointed for one more term of five years.

131. Consider the following statements with regard to the Protection of Human Rights Act, 1993 :

1. It is mandatory to have at least one woman Member in the National Human Rights Commission having the knowledge of, or practical experience in, matters relating to human rights.

2. It is mandatory to have at least three Members in the National Human Rights Commission having the knowledge of, or practical experience in, matters relating to human rights.
3. The Chief Commissioner for Persons with Disabilities is deemed to be a Member of the National Human Rights Commission for certain purposes only.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

132. Which one among the following provisions of the Constitution of India relates to preventive detention?

- (a) Article 19
- (b) Article 20
- (c) Article 21
- (d) Article 22

133. Amendments to which one among the following Articles to the Constitution of India have **not** been enforced till now?

- (a) Article 20(1)
- (b) Article 20(2)
- (c) Article 21
- (d) Article 22(4)

134. Which one among the following rights is **not** expressly provided under Article 22 of the Constitution of India to a person who has been arrested and detained?

- (a) Right to get bail
- (b) Right to know the grounds of arrest
- (c) Right not to remain detained beyond twenty-four hours of arrest without the authority of a Magistrate
- (d) Right to be defended by a legal practitioner of his choice

135. Consider the following statements relating to identification of arrested person under the Code of Criminal Procedure, 1973 :

1. An arrested person can be directed to subject himself to identification in the manner prescribed by the court.
2. If the person identifying the person arrested is mentally or physically disabled, the identification process must be videographed in all cases.
3. The supervision of a Magistrate is not mandatory if the person identifying is mentally or physically disabled.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

136. Which one among the following provisions of the Constitution of India prohibits forced labour such as traffic in human beings, *Begar* and such other similar forms of labour, but does **not** prevent the State from imposing compulsory service for public purposes without discrimination?

- (a) Article 23
- (b) Article 24
- (c) Article 25
- (d) Article 26

137. What does 'evidence', under the Indian Evidence Act, 1872, mean?

1. Statements in relation to matters of fact under inquiry which the court permits or requires to be made before it by witnesses
2. Documents produced for the inspection of the court including electronic records

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

138. Which one among the following legal propositions is **not** correct with regard to the Indian Evidence Act, 1872?

- (a) When there is a provision that the court may presume a fact, it may either regard such fact as proved unless it is disproved or may call for proof of it
- (b) When there is a provision that the court shall presume a fact, it shall regard such fact as proved unless it is disproved
- (c) When there is a provision that the court shall presume a fact, it may call for proof
- (d) When one fact is declared to be conclusive proof of another, the court shall, on proof of one fact, regard the other as proved and shall not allow evidence to be given for the purpose of disproving it

139. 'Court', under the Indian Evidence Act, 1872, does **not** include which of the following?

- (a) Magistrates
- (b) Arbitrators
- (c) Civil Judges
- (d) Persons legally authorized to take evidence

140. In which one among the following cases, the Supreme Court issued detailed directions for the protection of the rights of the arrested person?

- (a) D. K. Basu *vs* State of West Bengal
- (b) Lalita Kumari *vs* State of UP
- (c) Rudul Sah *vs* State of Bihar
- (d) Parmanand Katara *vs* Union of India

141. Under which one among the following Sections of the Right to Information Act, 2005 is information pertaining to violation of human rights **not** exempted from disclosure by intelligence and security organizations established by the government?

- (a) Section 18
- (b) Section 20
- (c) Section 24
- (d) Section 26

142. Which of the following is **not** correct?

A voluntary reference of dispute to arbitration under Section 10A of the Industrial Disputes Act, 1947 can be made

- (a) where the industrial dispute exists or is apprehended
- (b) when the employer and the workmen agree to refer the dispute to arbitration

(c) at any time before or after the dispute has been referred under Section 10

(d) to such person or persons as may be specified in the arbitration agreement

143. Which one among the following statements in respect of publication and commencement of an award under the Industrial Disputes Act, 1947 is **not** correct?

(a) Every arbitration award or award of the Labour Court, Tribunal or National Tribunal shall be published by the appropriate government within a period of 30 days from the date of receipt of any such award.

(b) An award is enforceable on the expiration of 30 days from the date of its publication by the appropriate government.

(c) The appropriate government can declare that such award is not enforceable even after the expiration of 30 days, in case it is of the opinion that it is inexpedient on public grounds affecting the national economy to give effect to the award.

(d) The powers vested on the appropriate government with regard to making an award unenforceable are absolute and it is not required to refer the matter any further to any other authority.

144. Which of the following categories of persons is/are 'workmen' under the Industrial Disputes Act, 1947?

1. Persons employed to look after the administrative functions in an industry
2. Persons employed to do technical work in an industry
3. Persons employed as officer or employee of a prison
4. Persons employed to do operational work in an industry

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 and 4 only
- (c) 2, 3 and 4
- (d) 1, 2 and 4

145. Which one among the following amounts to retrenchment?

- (a) X retires from his services on reaching the age of superannuation
- (b) X is terminated from his services due to non-renewal of his employment contract
- (c) X is terminated by his employer for any reasons whatsoever
- (d) X is terminated from his employment by way of punishment inflicted by way of disciplinary action

146. Which of the following can be said to be classified as partial disablement?

1. In case the disablement is temporary, it reduces the earning capacity of the employee in any employment in which he was engaged at the time of the accident
2. In case the disablement is temporary, it disables the person from performing all works that he was capable of performing at the time of the accident
3. In case the disablement is permanent, it reduces his earning capacity in every employment he was capable of undertaking at the time of the accident

Select the correct answer using the code given below.

- (a) 2 and 3
- (b) 1 and 3
- (c) 3 only
- (d) 1 only

147. In which of the following cases will an employer be held liable to pay compensation under the Employees' Compensation Act, 1923?

1. Where a personal injury is caused to an employee by an accident arising out of his employment
2. Where the injury caused results in total disablement for two days
3. Where the personal injury to the employee is caused in the course of his employment

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

148. Which one of the following statements in the context of the Employees' Compensation Act, 1923 is correct?

- (a) The lump-sum or half-monthly payment payable under the Act may be assigned or charged or liable to pass on to any person other than the employee.
- (b) A notice of compensation may be entertained by the Commissioner, even if the notice of the accident was not provided when the accident occurred.
- (c) Any right to receive half-monthly payment can under no circumstances be redeemed by payment of a lump-sum of such amount.
- (d) The half-monthly payment payable under the Act may be reviewed by the Commissioner in case there is a change in the condition of the employee.

149. Consider the following statements in respect of granting exemption from the operation of the provisions of the Employees' Provident Fund Scheme under the Employees' Provident Funds and Miscellaneous Provisions Act, 1952 :

- 1. In case the appropriate government is of the opinion that the rules of provident fund as to the rate of contributions of an establishment are not less favourable than those specified in the Act, exemption may be granted.
- 2. In case the employees in an establishment are in enjoyment of benefits in nature of provident fund, pension or gratuity, which are not less favourable to the employees than the benefits provided under the Act, exemption may be granted.

3. Where such exemptions have been granted, the provisions regarding contributions (Section 6), and determination of money due from employers (Section 7A) under the Act, will not apply.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 and 2 only

150. During the pendency of any proceeding before a Board of Conciliation, Labour Court, Tribunal or National Tribunal, which of the following actions **cannot** be taken by an employer under the Industrial Disputes Act, 1947?

- 1. Altering in regard to any matter not connected with the dispute, the service conditions applicable to a workman immediately before the commencement of such proceedings
- 2. Discharging or punishing a workman for a misconduct that is not connected with the pending dispute
- 3. Discharging or punishing a protected workman after instituting a Disciplinary Committee against him

Select the correct answer using the code given below.

- (a) 2 only
- (b) 3 only
- (c) 1 and 2
- (d) 1 and 3

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी. बी. सी. : KSDG-A-GIP



परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

परीक्षण पुस्तिका
1000369 सामान्य योग्यता और बुद्धिमत्ता
तथा वृत्तिक कौशल



समय : दो घण्टे और तीस मिनट

पूर्णांक : 300

अनुदेश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लीजिए।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को, ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की ज़िम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
4. इस परीक्षण पुस्तिका में 150 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. **सभी** प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अंत में संलग्न हैं।
10. गलत उत्तरों के लिए ऋणात्मक अंकन नहीं है।
11. इस परीक्षण पुस्तिका में दो भाग हैं। भाग A सामान्य योग्यता और बुद्धिमत्ता के विषय में है और इसमें 75 प्रश्न हैं। भाग B वृत्तिक कौशल के विषय में है और इसमें 75 प्रश्न हैं। इन सभी 150 प्रश्नों के उत्तर दिए जाने हैं।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

PART A

GENERAL ABILITY AND INTELLIGENCE

1. Two trains are approaching each other on parallel tracks. Their lengths are 700 m and 400 m, respectively. The speed of the first train is 95 km/hr and that of the second train is 125 km/hr. The time required by the trains to cross each other is :
 - (a) 20 seconds
 - (b) 18 seconds
 - (c) 16 seconds
 - (d) 14 seconds
2. In a swimming competition, the players were asked to swim 9 km upstream and then swim back to the point of starting. The winner of the competition could complete the task in 1 hour and 30 minutes. If the speed of the current of the river water was 8 km/hr, the speed of the winner is :
 - (a) 16 km/hr
 - (b) 20 km/hr
 - (c) 14 km/hr
 - (d) 18 km/hr
3. A wire is in the shape of a circle. It is straightened and reshaped into a rectangle whose sides are in the ratio 6 : 7. If the area of the rectangle is 4200 sq. cm, the radius of circle is, approximately :
 - (a) 40 cm
 - (b) 42 cm
 - (c) 41 cm
 - (d) 35 cm
4. In a party, each person takes at least one beverage. There are three beverages in the party – tea, coffee and milk. Each beverage is consumed by 30 persons. Five persons, who take tea, also take milk. Ten persons, who take milk, also take coffee. However, no person takes tea and coffee both. How many persons are there in the party ?
 - (a) 90
 - (b) 85
 - (c) 80
 - (d) 75
5. A, B and C alone can finish a job in 20, 25 and 30 days, respectively. A and B together start doing the job. However, they leave it after 10 days. The remaining part of the job is finished by C alone. How many days did C take to finish the job ?
 - (a) 4 days
 - (b) 3 days
 - (c) 5 days
 - (d) 6 days
6. Which one of the following statements is **not** correct ?
 - (a) Goa was established as a State by separating it from Union Territory of Daman and Diu in 1987
 - (b) Mizoram was earlier a Union Territory
 - (c) Karnataka was created by the States Reorganisation Act, 1956
 - (d) The State of Bombay was bifurcated into Gujarat and Maharashtra in 1960
7. Who amongst the following has **not** occupied the office of both President and Vice President of India ?
 - (a) Sarvepalli Radhakrishnan
 - (b) Zakir Hussain
 - (c) K.R. Narayanan
 - (d) Neelam Sanjiva Reddy
8. As per the Census of India 2011, which one among the following Scheduled Languages of India has the highest percentage of speakers ?
 - (a) Bengali
 - (b) Marathi
 - (c) Telugu
 - (d) Urdu

9. Which one of the following statements about Panchayati Raj Institutions in India is **not** correct ?
- Not less than one-third of the total number of the offices of Chairpersons in the Panchayats at each level are reserved for women
 - Reservation for Scheduled Castes and Scheduled Tribes are provided for at all the three levels of local bodies
 - States can provide for reservations for the Other Backward Classes (OBCs), if needed
 - State Election Commissioner is appointed by the President of India on the advice of the Governor to conduct Panchayat elections
10. Which of the following statements in terms of Article 14 of the Constitution of India is/are correct ?
- Article 14 would apply only when invidious discrimination is meted out to equals and similarly circumstanced without any rational basis
 - Article 14 guarantees equality before the law or the equal protection of the laws within the territory of India
- Select the correct answer using the code given below :
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
11. In which year was the first All India Census attempted and from which year did the Decennial Census become a regular feature ?
- 1861 and 1881 respectively
 - 1776 and 1801 respectively
 - 1872 and 1881 respectively
 - 1881 and 1891 respectively
12. *Damin-i-Koh* is essentially associated with which of the following tribes of India ?
- Lushai
 - Khasi
 - Toda
 - Santhal
13. Which one of the following statements about the headman of the village panchayat in medieval India is **not** true ?
- The office of the headman was always hereditary
 - The chief function of the headman was to supervise the preparation of village accounts
 - One of the duties of the headman was to ensure the proper working of the caste system
 - In eastern India, all marriages were held in the presence of the headman
14. Which of the following do/does **not** represent a break between the Early Harappan cultures and the Mature Harappan civilization ?
- Large-scale burning at some sites
 - Abandonment of certain settlements
 - A shift in the course of the Hakra river
- Select the correct answer using the code given below :
- 1 only
 - 1 and 2 only
 - 1, 2 and 3
 - 3 only
15. Tosali is known in Indian History as the name of :
- the Jain brother of the Buddhist Upali.
 - a provincial centre in Mauryan Empire.
 - wife of Mahapadma Nanda.
 - a sacred river in Andhra Pradesh.

16. Which one of the following states is part of the Ganga Basin ?
- Himachal Pradesh
 - Sikkim
 - Assam
 - Odisha
17. Union Territories of 'Dadra and Nagar Haveli' and 'Daman and Diu' were merged together in January 2020. Which one of the following cities was made capital of the merged Union Territory ?
- Dadra
 - Diu
 - Daman
 - Silvassa
18. With reference to Lake Victoria, which of the following statements is/are correct ?
- The lake is divided among four countries
 - Its area is more than 50,000 sq. km
 - It is situated in the African rift valley
- Select the correct answer using the code given below :
- 1 only
 - 1 and 2 only
 - 2 only
 - 1, 2 and 3
19. Which one of the following cities is **not** situated along river Rhine in Europe ?
- Strasbourg (France)
 - Rotterdam (The Netherlands)
 - Cologne (Germany)
 - Vienna (Austria)
20. Which of the following cities are **not** situated along the Persian Gulf ?
- Doha
 - Dubai
 - Jeddah
 - Yanbu
- Select the correct answer using the code given below :
- 1 and 2 only
 - 1 and 3 only
 - 2 and 3 only
 - 3 and 4 only
21. Which one of the following is the energy source of stars ?
- Nuclear fission
 - Nuclear fusion
 - Chemical reaction
 - Photochemical reaction
22. The Nobel Prize in Physics in 2022 was awarded for :
- Evolution of Universe
 - Quantum entanglement
 - Black hole
 - Laser Physics

23. Survey of India, the national survey and mapping organization, works under the :
- Ministry of Education
 - Ministry of Home Affairs
 - Ministry of Earth Sciences
 - Ministry of Science and Technology
24. As of 2022, which one of the following is the estimated installed capacity of nuclear power in India ?
- About 45000 MW
 - About 23000 MW
 - About 7000 MW
 - About 2000 MW
25. A person of mass 50 kg is standing in a lift. If the lift moves in upward direction with an acceleration of 1 m/s^2 , then the weight of the person will be closest to :
- 490 N
 - 540 N
 - 440 N
 - 50 N
26. Which one among the following statements regarding sound is correct ?
- High pitch sound has high frequency
 - High pitch sound has high amplitude
 - High pitch sound has high speed
 - High pitch sound has low frequency and high amplitude
27. A climber tries to reach the top of an object which is 130 m high. He can climb one metre per minute. However, as soon as he completes 5 metres, he slips down by one metre. The climber will reach the top in :
- 2 hours 10 minutes
 - 2 hours 45 minutes
 - 2 hours 42 minutes
 - 2 hours 40 minutes
28. The wheel of a car covers a distance of 44 km in 5000 revolutions. The radius of the wheel is :
- 14 cm
 - 7 cm
 - 28 cm
 - 25 cm
29. The digit in the unit place of the number $(347)^{192} \times (143)^{205}$ is :
- 9
 - 1
 - 7
 - 3
30. What is the smallest number, which when multiplied by 9 gives the product having the digit 5 only in all places ?
- 95283955
 - 61728395
 - 12345675
 - 59382716

31. A father's age is 2 years more than 4 times the age of his son. His age is also 2 years more than 5 times the age of his daughter. The average age of the father, the son and the daughter is 20 years. What is the age of the daughter ?
- 6 years
 - 12 years
 - 10 years
 - 8 years
32. Which one of the following is the most accurate meaning of the term 'the State', as defined in Part-III of the Constitution of India ?
- The Union Government, all State Governments and all local authorities within the territory of India
 - The Parliament of India and State Legislatures
 - The Union Government and the Parliament of India
 - The Union Government, all State Governments, Parliament of India and all State Legislatures and all local or other authorities within the territory of India
33. Which one among the following political parties came second in terms of seats won in the first Lok Sabha election in India ?
- Kisan Mazdoor Praja Party
 - Communist Party of India
 - People's Democratic Front
 - Socialist Party
34. Which one of the following States has less than two Lok Sabha seats ?
- Arunachal Pradesh
 - Goa
 - Meghalaya
 - Mizoram
35. With respect to the Public Accounts Committee of the Parliament of India, which of the following statements is/are correct ?
- The committee came into existence in the year 1921
 - It was not a Parliamentary Committee under the control of the Speaker at the time of its inception
- Select the correct answer using the code given below :
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
36. In terms of area under forest cover, the top three states in India are :
- Madhya Pradesh, Arunachal Pradesh and Chhattisgarh
 - Mizoram, Arunachal Pradesh and Meghalaya
 - Arunachal Pradesh, Maharashtra and Odisha
 - Madhya Pradesh, Odisha and Maharashtra
37. Who among the following kings is described in an inscription as the Supreme Being, the cause of the prosperity of the good and the destruction of the bad ?
- Gautamiputra Shatakarni
 - Kanishka
 - Samudragupta
 - Harshavardhana
38. Which one of the following Tamil texts deals with grammar ?
- Manimekalai*
 - Silappadikaram*
 - Tolkappiyam*
 - Padirrupattu*
39. Who among the following did **not** contribute to the preservation and documentation of the ancient site of Sanchi in Madhya Pradesh ?
- Shahjahan Begum
 - John Marshall
 - Sultan Jehan Begum
 - J.M. Kenoyer

40. 'Predator Drones' are manufactured by :

- (a) General Atomics
- (b) The Boeing Company
- (c) Lockheed Martin Corporation
- (d) PrecisionHawk

41. Consider the following statements :

It was alleged that the river became dead after its mouth was closed restricting its free flow in 1950. The entire river bed was converted into a dumping ground for garbage and solid and liquid waste. The National Green Tribunal has recently directed the State Government to revive the dead river by earmarking dedicated fund for the purpose.

Identify the river :

- (a) Vamsadhara river
- (b) Sukapaika river
- (c) Musi river
- (d) Ulhas river

42. Consider the following statements :

1. In July 2022, the United Nations General Assembly adopted a Resolution recognizing the right to a clean, healthy, and sustainable environment as a human right
2. India was one of five countries, which had originally proposed the Resolution

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

43. Which of the following statements is/are correct about Mineral Security Partnership ?

1. It is an initiative to bolster critical mineral supply chain, established by the United States of America and other countries.
2. India is not a partner of this initiative.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

44. John Goodenough, a Nobel Prize winner, recently passed away at the age of 100. He was awarded the Nobel Prize for :

- (a) Inventing Chlorpromazine
- (b) Inventing Morphine
- (c) Developing Lithium-ion battery
- (d) Developing HIV protease inhibitors

45. With reference to Lakshadweep, which of the following statements is/are correct ?

1. It is an archipelago consisting of coral islands and reefs
2. It is the smallest Union Territory of India in terms of area
3. The main occupation of people is tourism and allied activities

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1 only

46. Which of the following countries are *not* situated along the coast of the Baltic Sea ?
- Latvia and Poland
 - Latvia and Russia
 - Sweden and Russia
 - Sweden and Norway
47. Lake Balkhash is situated in which one of the following countries ?
- Kazakhstan
 - Kyrgyzstan
 - Russia
 - Turkmenistan
48. With reference to the Galapagos Islands, which of the following statements is/are correct ?
- They are formed due to volcanic activity
 - They are part of the South American nation, Peru
 - They are situated in the Pacific Ocean
- Select the correct answer using the code given below :
- 1 and 2 only
 - 1 and 3 only
 - 2 and 3 only
 - 3 only
49. Which of the following coal-based power plants are situated in Uttar Pradesh ?
- Darlipali
 - Dadri
 - Singrauli
 - Vindhyachal
- Select the correct answer using the code given below :
- 1 and 3 only
 - 2 and 3 only
 - 2 and 4 only
 - 3 and 4 only
50. Which one of the following substances is *not* used as a lubricant in heavy industries ?
- Graphene
 - Talc
 - Glass
 - Sand
51. Which one of the following represents the correct order for the wavelengths of different waves ?
- Used for FM radio > Used for AM radio > Microwaves > Infrared > Visible light
 - Used for AM radio > Used for FM radio > Microwaves > Infrared > Visible light
 - Microwaves > Used for AM radio > Used for FM radio > Infrared > Visible light
 - Used for AM radio > Used for FM radio > Infrared > Visible light > Microwaves

52. According to the Big Bang theory of the origin of the Universe, the age of the Universe is estimated at about :
- 0.3 million years
 - 4 – 6 billion years
 - 7 – 10 billion years
 - 13 – 18 billion years
53. The temperature of a body decreases from 240 K to 210 K. The corresponding change (without sign) in the temperature in degree Fahrenheit is close to :
- 54° F
 - 30° F
 - 17° F
 - 44° F
54. Which one among the following sectors in India consumes the maximum amount of groundwater ?
- Industry
 - Agriculture
 - Household
 - Mining
55. Who among the following is considered as the 'Father of Vitamin therapy' ?
- Christiaan Eijkman
 - Frederick Hopkins
 - Casimir Funk
 - Robert Woodward
56. Trees Outside Forests in India (TOFI) programme is a five-year joint initiative by the United States Agency for International Development (USAID) and the Ministry of Environment, Forest and Climate Change, Government of India. Which are the seven participating states of India in this programme ?
- Assam, Bihar, Haryana, Rajasthan, Maharashtra, Uttar Pradesh and Chhattisgarh
 - Assam, Bihar, Haryana, Rajasthan, Gujarat, Punjab and West Bengal
 - Andhra Pradesh, Punjab, Rajasthan, Chhattisgarh, West Bengal and Tamil Nadu, Odisha
 - Assam, Andhra Pradesh, Haryana, Odisha, Rajasthan, Tamil Nadu and Uttar Pradesh
57. Which of the following statements is *not* correct as per the Climate Change Performance Index (CCPI)-2023 ?
- India has jumped 2 spots higher in CCPI-2023.
 - India is placed at the 8th rank in CCPI-2023.
 - India is amongst the top 5 best performing countries in the world on climate change.
 - India is placed lower in rank in this index than Norway and United Kingdom.

58. UNDP's 'Gender Social Norms Index' comprises four dimensions. Which of the following is **not** a dimension ?
- Political
 - Educational
 - Cultural
 - Physical
59. Consider the following statements related to 'Sovereign Green Bonds' :
- Union Budget 2021-22 announced the issue of these bonds
 - The Government of India has approved a Sovereign Green Bonds Framework
 - These bonds are meant to be issued for mobilizing resources for green projects
 - These bonds are financial instruments that generate proceeds for investment in environmentally sustainable and climate suitable projects
- How many of the above statements are correct ?
- 1
 - 2
 - 3
 - 4
60. Which one of the following Summits/Conferences is **not** correctly paired with the place of the summit/conference ?
- UN 2023 Water Conference : New York
 - SDG Summit 2023 : Washington, DC
 - Climate Ambition Summit 2023 : New York
 - COP 28 : Dubai
61. 'A' and 'B' have pocket money in the ratio of 3 : 4. After the day's work, 'A' earned ₹ 600 while 'B' earned ₹ 500. However, 'A' spent ₹ 150 and 'B' spent ₹ 100 during the day. If they have equal amount of money at the end of the day, then the pocket money 'A' had in the morning is :
- ₹ 150
 - ₹ 200
 - ₹ 250
 - ₹ 100
62. A businessman lost 20% of his goods due to rain. The remaining items were sold at a profit of 50%. The businessman earned an overall profit of :
- 10%
 - 30%
 - 20%
 - 40%
63. A man takes a loan at 5% simple interest for a period of 2 years. He immediately gives this money on loan at 5% compound interest for 2 years. What is the amount of loan he has taken if he makes a profit of ₹ 2,100 ?
- ₹ 8,00,000
 - ₹ 4,20,000
 - ₹ 1,00,000
 - ₹ 8,40,000
64. Which one among the following is the most reactive metal ?
- Na
 - K
 - Ca
 - Mg

65. Which one of the following groups of organisms correctly makes a food chain ?
- Grass, Goat, Human
 - Elephant, Goat, Grass
 - Tiger, Snake, Grass
 - Insect, Frog, Grass
66. Which one of the following pairs correctly represents an example of analogous organs ?
- Forelimb of horse and human arm
 - Human hands and wings of birds
 - Wings of birds and wings of insects
 - Flipper of whale and forelimb of frog
67. Who among the following directed the film 'Subarnarekha' made on the partition of India ?
- Satyajit Ray
 - Mrinal Sen
 - Bimal Roy
 - Ritwik Ghatak
68. Who among the following is the author of the book 'Rajtarangini' ?
- Bilhana
 - Kalhana
 - Banabhatta
 - Bhavabhuti
69. In a game between X and Y, X has to give ₹ 10 each time he loses to Y. If he wins, then he gets ₹ 50 from Y. If they play 15 times and X earns ₹ 450, how many times does X win ?
- 8
 - 9
 - 10
 - 12
70. A man purchases 5 shirts in a 'buy two, get five' scheme. How much discount percentage did he get ?
- 50%
 - 60%
 - 40%
 - 45%
71. Who among the following was the winner of the Booker Prize in the year 2022 ?
- Douglas Stuart
 - Geetanjali Shree
 - Shehan Karunatilaka
 - Amitav Ghosh
72. What is the name of the vehicle which NASA launched in November 2022 as part of a plan to eventually carry humans to the Moon ?
- SWOT
 - Artemis
 - Insight Lander
 - SpaceX

PART B
PROFESSIONAL SKILL

73. In June 2023, the Government of India set up an expert panel to recommend reforms in the Arbitration and Conciliation Act, 1996 with an aim to reduce the burden on courts. The Committee is headed by who among the following ?

- (a) The incumbent Attorney General of India
- (b) The incumbent Law Secretary
- (c) A former Law Secretary
- (d) A retired Chief Justice of India

74. Indo-Bhutan Border is guarded by which one among the following forces ?

- (a) Border Security Force (BSF)
- (b) Indo-Tibetan Border Police (ITBP)
- (c) Assam Rifles
- (d) Sashastra Seema Bal (SSB)

75. Match List I with List II and select the correct answer using the code given below the Lists :

<i>List I</i>	<i>List II</i>
<i>(Indian Navy Training Institute)</i>	<i>(INS)</i>

- | | | |
|---|----|-----------------------|
| A. Anti-Submarine Warfare School | 1. | INS Venduruthy, Kochi |
| B. NBCD School | 2. | INS Kunjali, Mumbai |
| C. Music Training School | 3. | INS Mandovi, Goa |
| D. Provost and Physical Training School | 4. | INS Shivaji, Lonavala |

Code :

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 3 | 2 | 4 | 1 |
| (b) | 1 | 4 | 2 | 3 |
| (c) | 3 | 4 | 2 | 1 |
| (d) | 1 | 2 | 4 | 3 |

76. Python is a :

- (a) High-level language
- (b) Assembly language
- (c) Machine language
- (d) Data definition language

77. Which one of the following is **not** a network topology ?

- (a) Bus
- (b) Star
- (c) Mesh
- (d) Peer-to-Peer

78. The result of binary addition of -8 and -2 in two's complement form is :

- (a) 10110
- (b) 0110
- (c) 1110
- (d) 0111

79. Which one of the following is **not** a pointing device ?

- (a) Touchscreen
- (b) Trackball
- (c) Light pen
- (d) Scanner

80. Which type of flip flops are used in registers ?

- (a) D type
- (b) SR
- (c) T type
- (d) JK

108. Which of the following statements with regard to CISF Act is/are correct ?

1. Head Constable is an under officer
2. Sub-inspector is a supervisory officer
3. Joint venture is not defined in CISF Act
4. Director General is appointed under Section 4 of the CISF Act

Select the correct answer using the code given below :

- (a) 2 and 3 only
- (b) 1 and 4 only
- (c) 3 and 4 only
- (d) 1 only

109. Which of the following statements is/are correct ?

1. The Director General of the CISF can confer local rank up to the rank of Commandant only
2. The Director General of the CISF cannot delegate the power of conferring local ranks
3. The officer who has been granted a local rank shall not be entitled to any extra pay and allowances

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 3 only
- (d) 2 only

110. The Chairperson of National Human Rights Commission is appointed by the President of India on the basis of recommendations of a Committee. Who among the following heads the Committee ?

- (a) The Prime Minister of India
- (b) The Minister in charge of Home Affairs
- (c) The Leader of the Opposition in Lok Sabha
- (d) The Minister in charge of Law and Justice

111. The Protection of Human Rights Act, 1993 provides for the constitution of which of the following bodies ?

1. National Human Rights Commission
2. State Human Rights Commission
3. Human Rights Tribunal
4. Human Rights Court

Select the correct answer using the code given below :

- (a) 1, 2, 3 and 4
- (b) 2 and 3 only
- (c) 1, 3 and 4 only
- (d) 1, 2 and 4 only

112. In the basic emergency plan, which of the following steps must be included in a shutdown procedure ?

1. Shutting off power to machines and fans
2. Opening windows (except in case of bomb threats)
3. Closing valves
4. Unplugging vents and pipes

Select the correct answer using the code given below :

- (a) 1 and 3 only
- (b) 3 only
- (c) 3 and 4 only
- (d) 1, 2 and 4

113. Which of the following are the three 'D's in the Principles of Security ?

1. Denial
2. Detection
3. Deterrence
4. Destruction

Select the correct answer using the code given below :

- (a) 1, 2 and 4
- (b) 2, 3 and 4
- (c) 1, 2 and 3
- (d) 1, 3 and 4

114. The magnitude of an earthquake is measured by :

- (a) Tiltmeter
- (b) Richter scale
- (c) Seismograph
- (d) Seismometer

115. Briefing by the convoy commander before moving off must be detailed and explicit. The briefing should include :

1. Distribution of weapons irrespective of training
2. Appointment and duties of vehicle commanders

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

116. Commendation Discs **cannot** be awarded by Director General on which one of the following grounds ?

- (a) Commendable work during natural calamities
- (b) Accident-free driving and good record for ten years
- (c) Clean and good record of service for fifteen years
- (d) Outstanding achievement in sports at international level

117. Which of the following statements is/are correct ?

1. Employees of an industrial undertaking can be granted monetary reward if they help to detect serious crime
2. Monetary reward is admissible to non-gazetted Government servants only

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

125. In VIP security, counter surveillance is very important. Which of the following is/are essential for counter surveillance ?

1. Try speeding up, and then slow down
2. Walk into a building and stop abruptly
3. Drop something to see if someone picks it up

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1, 2 and 3
- (c) 2 and 3 only
- (d) 1 and 3 only

126. What is a system of a secure key pair consisting of a private key for creating a digital signature and a public key to verify the digital signature, known as :

- (a) Asymmetric crypto system
- (b) Secure system
- (c) Symmetric crypto system
- (d) Digital signature certificate

127. In 2015, the Supreme Court of India struck down Section 66A of the Information and Technology Act, 2000 as being unconstitutional and violative of Article 19(1)(a) of the Constitution of India. In which case did the Supreme Court deliver this landmark judgment ?

- (a) Shamsher Singh Verma v. State of Haryana
- (b) Shankar v. State
- (c) Shreya Singhal v. Union of India
- (d) Suhas Katti v. State of Tamil Nadu

128. Under the Prevention of Money-Laundering Act, 2002, any authority or officer, who without reasons recorded in writing, conducts vexatious search by exercising powers under the Act is liable for punishment of :

- (a) Imprisonment up to 3 years or fine up to ₹ 50,000 or both
- (b) Imprisonment up to 2 years or fine up to ₹ 50,000 or both
- (c) Imprisonment up to 1 year or fine up to ₹ 50,000 or both
- (d) Imprisonment up to 6 months or fine up to ₹ 10,000 or both

129. In cases triable by special judges under the Prevention of Corruption Act, 1988, what is ordinarily the prescribed time period during which the trial should be concluded ?

- (a) 2 years in aggregate
- (b) 3 years in aggregate
- (c) 4 years in aggregate
- (d) 5 years in aggregate

130. Which of the following groups of provisions of the Indian Penal Code, 1860 form the basis for the present Prevention of Corruption Act ?

- (a) Section 58 to Section 62
- (b) Section 161 to Section 165A
- (c) Section 216B to Section 226
- (d) Section 478, 480, 490 and 492

131. Which one of the following statements with regard to TNT is **not** correct ?

- (a) TNT stands for trinitrotoluene
- (b) It is of creamy yellow colour
- (c) It is a solid organic nitrogen compound
- (d) It is considered to be a low intensity explosive substance

132. Which of the following statements with regard to fuses are correct ?

1. Fuses are simple switches required to activate an explosive device
2. The three main types of fuses are time delay, physical action, and environment
3. Good example of time delay fuses are chemical pencils

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

133. 'Road Block' is done in terrorist affected areas. Which of the following principles should be followed in it ?

1. It should make it difficult for the terrorists to turn back
2. Adequate troops should be kept in the open
3. Manning of road block should be done as per traffic movement
4. Proper communication be set up, audible to all nearby personnel

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 and 4 only
- (c) 1, 2 and 3
- (d) 1 and 3 only

134. If a VIP is staying in a hotel, you should check that :

1. emergency exits are available.
2. incoming calls are screened.
3. valuables are deposited with the bodyguards.

Which of the statements given above is/are correct ?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 2 only
- (d) 1 and 2 only

135. In which one of the following cases did the Supreme Court give directions that statutory status should be conferred upon the Central Vigilance Commission ?

- (a) Vineet Narain & Others v. Union of India & Another
- (b) Common Cause (A Regd. Society) v. Union of India
- (c) Centre for PIL v. Union of India & Others
- (d) Pravin Kumar v. The State

136. Under the Employees' Provident Funds and Miscellaneous Provisions Act, 1952, an employee who is the member of Pension Scheme is said to reach the age of superannuation when such employee attains the age of :
- 55 years
 - 58 years
 - 60 years
 - 62 years
137. After framing of the Pension Scheme under the Employees' Provident Funds and Miscellaneous Provisions Act, 1952, a pension fund shall be established as soon as possible. The establishment of the Pension Fund shall lead to cessation of which of the following ?
- Employees' Pension Scheme
 - Employees' Deposit Linked Insurance Scheme
 - Family Pension Scheme
 - None of the above
138. A Tribunal under Employees' Provident Funds Scheme may, at any time, with a view to rectifying any mistake apparent from the record, amend any order passed by it, within a period of :
- three years from the date of its order
 - five years from the date of its order
 - two years from the date of its order
 - one year from the date of its order
139. Which one of the following is **not** an authority appointed/constituted under the Industrial Disputes Act, 1947 ?
- Conciliation Officer
 - Board of Conciliation
 - Registrar
 - Works Committee
140. Program in execution is called a :
- Process
 - Product
 - Code
 - Page
141. Which one of the following is **not** a multi-user operating system ?
- UNIX
 - Windows XP
 - MS-DOS
 - Windows 2000
142. Which one among the following is the fastest mode of transmission media ?
- Coaxial cables
 - Twisted-pair cables
 - Infrared rays
 - Optical fibers
143. Which one of the following protocols is used for determining the MAC address corresponding to an IP address ?
- ARP
 - IP
 - ICMP
 - FTP
144. Which one of the following pairs of term and meaning is **not** correctly matched ?
- Lockout : Temporary closing of a place of employment
 - Lay off : Failure, inability, refusal of employer to give employment
 - Suspension : Termination of service of workman as a result of non-renewal of contract of employment
 - Closure : Permanent closing down of a place of employment or part thereof

145. The term "employee" under Employees Compensation Act, 1923 does **not** include :

- (a) A captain or other member of the crew of an aircraft
- (b) A person recruited as driver, helper, cleaner in connection with a motor vehicle
- (c) Any person working in the capacity of a member of the Armed Forces
- (d) A person recruited for work abroad by a company

146. A Magistrate of first class may, under Section 94 of the Code of Criminal Procedure, 1973, by warrant authorize any police officer above the rank of a Constable to search a place suspected to contain stolen property, forged documents, etc. Which of the following objectionable articles are **not** covered under this Section ?

- (a) Counterfeit coin
- (b) False seals
- (c) Obscene objects
- (d) A controversial book

147. Who among the following is authorized to grant a warrant to search for a document, parcel or other thing in the custody of the postal or telegraph authority ?

- (a) Sub-divisional Magistrate
- (b) Judicial Magistrate first class
- (c) District Magistrate
- (d) Judicial Magistrate second class

148. Under Section 95 of the Code of Criminal Procedure, 1973, the State Government may declare forfeiture and authorize Police Officers to seize which of the following items ?

- 1. Paintings and drawings
- 2. Photographs or other visible representations
- 3. Newspapers and books
- 4. Pieces of metal made in contravention of the Metal Tokens Act, 1889

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2 and 3 only
- (d) 2 and 3 only

149. What is the prescribed time limit within which a person may make application to the High Court to set aside a declaration of forfeiture made under Section 95 of the Code of Criminal Procedure, 1973 ?

- (a) Fifteen days from the date of publication of such declaration in the Official Gazette
- (b) Two months from the date of publication of such declaration in the Official Gazette
- (c) Three months from the date of publication of such declaration in the Official Gazette
- (d) Six months from the date of publication of such declaration in the Official Gazette

150. Who among the following does **not** have the power to make an order under Section 98 of the Code of Criminal Procedure, 1973, for restoration of abducted females ?

- (a) District Magistrate
- (b) Sub-Divisional Magistrate
- (c) Superintendent of Police
- (d) Magistrate First Class

CISF AC (EXE) LDCE 2023**Series A**

Paper	0
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Subject	GAI & PS
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Total Questions	150
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Maximum Marks	300
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No. of Questions Dropped	1
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No. of Questions taken for Scoring	149
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Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key
1	B	21	B	41	B	61	A	81	C	101	C	121	B	141	C
2	A	22	B	42	A	62	C	82	C	102	D	122	B	142	D
3	C	23	D	43	A	63	D	83	A	103	C	123	B	143	A
4	D	24	C	44	C	64	B	84	D	104	B	124	B	144	C
5	B	25	B	45	A	65	A	85	D	105	B	125	B	145	C
6	C	26	A	46	D	66	C	86	C	106	A	126	A	146	D
7	D	27	C	47	A	67	D	87	D	107	B	127	C	147	C
8	A	28	X	48	B	68	B	88	D	108	B	128	B	148	C
9	D	29	D	49	B	69	C	89	C	109	B	129	C	149	B
10	C	30	B	50	D	70	B	90	D	110	A	130	B	150	C
11	C	31	D	51	B	71	C	91	A	111	D	131	D		
12	D	32	D	52	D	72	B	92	B	112	A	132	A		
13	A	33	B	53	A	73	C	93	C	113	C	133	D		
14	D	34	D	54	B	74	D	94	A	114	B	134	D		
15	B	35	C	55	C	75	B	95	A	115	B	135	A		
16	A	36	A	56	D	76	A	96	C	116	B	136	B		
17	D	37	C	57	D	77	D	97	A	117	C	137	C		
18	C	38	C	58	C	78	B	98	D	118	C	138	B		
19	D	39	D	59	C	79	D	99	C	119	B	139	C		
20	D	40	A	60	B	80	A	100	D	120	D	140	A		

टी. बी. सी. : SAAI-A-PRI



परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1004637

परीक्षण पुस्तिका

प्रश्न-पत्र I



समय : दो घण्टे

पूर्णांक : 150

अनुदेश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लीजिए।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की ज़िम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखिए।
6. **सभी** प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अंत में संलग्न हैं।
10. ग़लत उत्तरों के लिए दंड :
उम्मीदवार द्वारा दिए गए ग़लत उत्तरों के लिए दंड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक ग़लत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का **एक-तिहाई** दंड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे **ग़लत उत्तर** माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए **कोई दंड नहीं** दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

1. Which one of the following Articles of the Constitution of India says that all public places are open to all citizens ?

- (a) Article 15(2)
- (b) Article 16(2)
- (c) Article 17
- (d) Article 18

2. Consider the following statements regarding the "starred questions" asked during Question Hour of Parliament :

1. Oral Answer is required to be given by the minister on floor of the house and supplementary questions may be asked on Minister's reply.
2. Oral Answer is required to be given by the minister on floor of the house and supplementary questions may not be asked on Minister's reply.
3. Written Answer is to be given by the minister after 10 days notice and no supplementary question may be asked.

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) 3 only
- (d) 1, 2 and 3

3. Which one of the following Articles of the Constitution of India says that Directive Principles are **not** enforceable by any court ?

- (a) Article 36
- (b) Article 37
- (c) Article 38
- (d) Article 39

4. The concept of privy purses and privileges of the Rulers of former Indian States was terminated through

- (a) the Constitution (First Amendment) Act
- (b) the Constitution (Twenty-sixth Amendment) Act
- (c) the Constitution (Fifty-second Amendment) Act
- (d) the Constitution (Ninety-first Amendment) Act

5. Which of the following are included in the basic structure of the Constitution of India ?

1. Supremacy of the Constitution
2. Judicial Review
3. Principle of equality
4. Free and fair elections

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

6. Which Constitutional Amendment provided that the election of the President of India or Vice-President of India **cannot** be challenged on the ground of any vacancy in the appropriate electoral college ?

- (a) 11th Amendment Act, 1961
- (b) 12th Amendment Act, 1962
- (c) 13th Amendment Act, 1962
- (d) 14th Amendment Act, 1962

7. A motion for removal of judge of High Court should be signed by how many members in case of Rajya Sabha ?

- (a) 40
- (b) 50
- (c) 60
- (d) 70

8. Which one of the following bills can the Governor **not** return back for the reconsideration of the State Legislature ?

- (a) Constitutional Amendment Bill
- (b) Money Bill
- (c) Ordinary Bill
- (d) Finance Bill

9. Consider the following statements :

Along with 'Right to Life' in Article 21 of the Constitution of India, it also includes

- 1. Right to Health
- 2. Right to Food
- 3. Right to Water

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

10. In Indian Parliament, under which condition can a house declare the seat of a member vacant ?

- (a) If member is absent from all meetings of the house for 60 days continuously
- (b) If member is absent from all meetings of the house for 45 days continuously
- (c) If member is absent from all meetings of the house for 30 days continuously
- (d) If member is absent from all meetings of the house for 21 days continuously

11. How many digits are there in the Legal Entity Identifier ?

- (a) 10
- (b) 14
- (c) 18
- (d) 20

19. What are the information *not* open to disclosure under RTI Act, 2005 ?

1. Disclosure of which would prejudicially affect the sovereignty and integrity of India, the security, strategic, scientific or economic interests of the State, relation with foreign State or lead to incitement of an offence.
2. Information which has been expressly forbidden to be published by any court of law or tribunal or the disclosure of which may constitute contempt of court.
3. Information, the disclosure of which would cause a breach of privilege of Parliament or the State Legislature.
4. Information including commercial confidence, trade secrets or intellectual property, the disclosure of which would harm the competitive position of a third party, unless the competent authority is satisfied that larger public interest warrants the disclosure of such information.

Choose the correct answer using the code given below :

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3 and 4

20. Which one of the following Sections of RTI Act, 2005 deals with 'exemption from disclosure of information' ?

- (a) Section 8
- (b) Section 9
- (c) Section 11
- (d) Section 7

21. Which Union Ministry has notified the 'National Bioenergy Programme' ?

- (a) Ministry of New and Renewable Energy
- (b) Ministry of Power
- (c) Ministry of Commerce and Industry
- (d) Ministry of MSME

22. Which Union Ministry implements the Faster Adoption and Manufacturing of Electric Vehicles ?

- (a) Ministry of Heavy Industries
- (b) Ministry of Power
- (c) Ministry of MSME
- (d) Ministry of Science and Technology

23. What is the name of new scheme announced under station redevelopment drive of Ministry of Railways ?

- (a) Atmanirbhar Bharat Station Scheme
- (b) Amrit Bharat Station Scheme
- (c) Bharat Rail Station Scheme
- (d) Atal Station Scheme

24. The New Integrated Food Security Scheme subsumes two current schemes of which Ministry ?
- Ministry of Agriculture and Farmers' Welfare
 - Ministry of Consumer Affairs, Food and Public Distribution
 - Ministry of Home Affairs
 - Ministry of Rural Development
25. Which Union Ministry notified officials to act as members of Grievance Appellate Committees ?
- Ministry of Electronics and Information Technology
 - Ministry of Home Affairs
 - Ministry of Finance
 - Ministry of Agriculture and Farmers' Welfare
26. As per the proposed 'National Data Governance Policy', India Data Management Office will be formed under which Ministry ?
- Ministry of Electronics and Information Technology
 - Ministry of Home Affairs
 - Ministry of Science and Technology
 - Ministry of External Affairs
27. Which Union Ministry along with the Ministry of Social Justice and Empowerment implements the NAMASTE scheme ?
- Ministry of Housing and Urban Affairs
 - Ministry of Rural Development
 - Ministry of MSME
 - Ministry of Agriculture and Farmers' Welfare
28. 'Padho Pardesh Scheme' was being implemented by which Union Ministry ?
- Ministry of Education
 - Ministry of Minority Affairs
 - Ministry of Youth Affairs and Sports
 - Ministry of Skill Development and Entrepreneurship
29. 'AuditOnline', which was recognised at the WSIS Forum 2023, is an open-source application developed by which Union Ministry ?
- Ministry of Panchayati Raj
 - Ministry of Rural Development
 - Ministry of Finance
 - Ministry of Corporate Affairs
30. 'Nasha Mukht Bharat Abhiyaan' is an initiative launched by which Union Ministry ?
- Ministry of Social Justice and Empowerment
 - Ministry of Home Affairs
 - Ministry of Housing and Urban Affairs
 - Ministry of Rural Development

31. While the proclamation of Emergency is in operation, the term of Lok Sabha may be extended at a time for a period not exceeding

- (a) 2.5 years
- (b) 1 year
- (c) 1.5 years
- (d) Depends on the discretion of the President of India

32. The Chairperson of Public Accounts Committee is appointed by

- (a) Speaker of Lok Sabha
- (b) President of India
- (c) Chief Justice of India
- (d) Chairman of Rajya Sabha

33. A money bill in the House of the People can be introduced on the recommendation of

- (a) Prime Minister of India
- (b) President of India
- (c) Speaker of Lok Sabha
- (d) Finance Minister

34. Which one of the following Articles of the Constitution of India deals with promotion of international peace and security ?

- (a) Article 48A
- (b) Article 41
- (c) Article 43A
- (d) Article 51

35. Which of the following does **not** come under the power of the President of India to pardon ?

1. Commutation of punishment or the sentence of any person
2. Remission of punishment or the sentence of any person
3. Continuation of punishment or the sentence of any person

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 2 only
- (c) 3 only
- (d) 1 only

36. Which of the following represents the disapproval of the policy underlying the demand ?

- (a) Policy Cut Motion
- (b) Economy Cut Motion
- (c) Token Cut Motion
- (d) Trade Cut Motion

37. In which Article of the Constitution of India is the office of the Attorney General for India provided ?

- (a) Article 75
- (b) Article 76
- (c) Article 77
- (d) Article 78

38. In which type of question in the Parliament is a written answer desired ?

- (a) Starred question
- (b) Unstarred question
- (c) Short notice question
- (d) Long notice question

39. Which among the following Bill will **not** lapse in the event of dissolution of Lok Sabha ?

- (a) Any Bill pending in Lok Sabha
- (b) Any Bill passed by the Lok Sabha but pending in Rajya Sabha
- (c) Any Bill passed by the Rajya Sabha and pending in Lok Sabha
- (d) Any Bill pending in Rajya Sabha and not passed by Lok Sabha

40. Approval of which among the following is needed to draw funds from Consolidated Fund of India ?

- (a) President of India
- (b) Parliament
- (c) Council of Ministers
- (d) Vice-President of India

41. Which among the following revolutions is related to 'fertilizers' ?

- (a) Silver Revolution
- (b) Grey Revolution
- (c) Golden Revolution
- (d) Pink Revolution

42. The Tobin tax, initially suggested by James Tobin, was a tax on which among the following transactions ?

- (a) Property Transactions
- (b) Currency Transactions
- (c) Industrial Transactions
- (d) Non-industrial Transactions

43. Via which of the following is the Ministry of Finance required to review every quarter the trends in Receipts and Expenditure in relation to the Budget and place it before both Houses of Parliament ?

- (a) Constitution of India
- (b) Fiscal Responsibility and Budget Management Act, 2003
- (c) Finance Acts of every year
- (d) Order of President of India

44. Direct Taxes Code is related to which among the following ?

- (a) Income Tax
- (b) Sales Tax
- (c) Excise Duty
- (d) Service Tax

45. The negotiable instruments are passed freely from one party to another almost in the same way as money. To be negotiable, the letter of credit must include

- (a) a conditional promise to pay on demand or at a definite time
- (b) an unconditional promise to pay on demand or at an indefinite time
- (c) an unconditional promise to pay on demand or at a definite time
- (d) a conditional promise to pay on demand or at an indefinite time

46. Consider the following companies :

1. Coal India Limited
2. Oil India Limited
3. Gail (India) Limited

Which of the above are Maharatna companies ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

47. Consider the following :

1. Smart cards
2. Magnetic stripe cards
3. Paper vouchers

Which of the above are Pre-paid Payment Instruments ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

48. Which one of the following is the apex financial institution responsible for development of Micro, Small and Medium Enterprises in India ?

- (a) IDBI
- (b) SIDBI
- (c) NABARD
- (d) EXIM

49. Consider the following differences between Credit cards and Debit cards :

1. While credit card can be used with zero balance in the account, to use debit card one must have balance in saving/current account.
2. While a credit card is connected to the bank or financial institution that issued the card, debit card is connected to a personal bank account.

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

50. Which one of the following ministries is responsible for calculating GDP in India ?

- (a) Ministry of Finance
- (b) Ministry of Commerce and Industry
- (c) Ministry of Statistics and Programme Implementation
- (d) Ministry of Consumer Affairs, Food and Public Distribution

51. Which institution has been selected by PFRDA as the 11th fund manager to manage retirement savings under NPS ?

- (a) Bandhan Pension Fund Managers
- (b) DSP Pension Fund Managers
- (c) Aditya Birla Sun Life Pension Fund
- (d) Axis Pension Fund

52. The RoDTEP support scheme, initially set to expire on September 30, 2023, has been extended till which date ?

- (a) December 31, 2023
- (b) March 31, 2024
- (c) June 30, 2024
- (d) September 30, 2024

53. Which institution released the report titled 'Methane Emissions in Livestock and Rice Systems' ?

- (a) NABARD
- (b) FAO
- (c) UNEP
- (d) UNFCCC

54. Standardised Precipitation Index is a tool used to monitor which parameter ?

- (a) Flood
- (b) Drought
- (c) Air Quality
- (d) Radiations

55. Bharatiya Bhasha Utsav, a 75-day-long event to celebrate Indian languages was started in which city ?
- (a) Chennai
(b) Lucknow
(c) Kochi
(d) Varanasi
56. Which institution organised the conference on 'Millets for Military Ration and Specific Nutritional Requirements' ?
- (a) DRDO
(b) HAL
(c) NABARD
(d) FAO
57. Which spacecraft successfully escaped the sphere of Earth's influence after Mars Orbiter Mission ?
- (a) Aditya – L1
(b) OneWeb India – 2
(c) NVS – 01
(d) Chandrayaan – 3
58. As per the 'Air Quality Life Index (AQLI) Annual Update 2023', poor air quality decreases the average Indian's life expectancy by
- (a) 5.1 years
(b) 5.3 years
(c) 6.1 years
(d) 6.3 years
59. Which scheme has been granted National Award for e-Governance 2023 (Gold) for Application of Emerging Technologies ?
- (a) PMKISAN
(b) SVAMITVA
(c) Atmanirbhar Bharat Abhiyan
(d) Mission Karmayogi
60. The 'Adopt a Heritage 2.0' Programme operates under which of these policy/legislative arrangements ?
- (a) Antiquities and Art Treasures Act, 1972
(b) Indian Treasure Trove Act, 1878
(c) National Mission on Monuments and Antiquities (NMMA)
(d) Ancient Monuments and Archaeological Sites and Remains Act (AMASR Act), 1958

61. Seventh Schedule of the Constitution of India deals with

- (a) Allocation of seats in the Council of States
- (b) Distribution of power between the Union and the States
- (c) Power and authority of the Municipalities
- (d) Powers of the Governor of the State

62. Which one of the following Articles of the Constitution of India states that the State shall not deny to any person equality before the law or the equal protection of law within the territory of India ?

- (a) Article 14
- (b) Article 19
- (c) Article 21
- (d) Article 256

63. Which one of the following sailing vessels was on transoceanic intercontinental expedition ?

- (a) INSV Tarini
- (b) INSV Taman
- (c) INSV Tarang
- (d) INSV Tara

64. Match the following lists :

List-I

List-II

(Term)

(Meaning)

P. Executive

1. An institution empowered to administer justice and provide a mechanism for the resolution of legal disputes.

Q. Judiciary

2. An assembly of people's representatives with the power to enact laws for a country

R. Legislature

3. A body of persons having authority to initiate major policies, make decisions and implement them based on the Constitution and laws of the country

Select the correct answer using the code given below :

	P	Q	R
(a)	3	1	2
(b)	2	3	1
(c)	1	3	2
(d)	2	1	3

65. Clause(4) of Article 15 has been added to the Constitution of India by

- (a) The Constitution (First Amendment) Act
- (b) The Constitution (Second Amendment) Act
- (c) The Constitution (Fourth Amendment) Act
- (d) The Constitution (Sixth Amendment) Act

66. Article 360 of the Constitution of India has been invoked
- only one time
 - two times
 - three times
 - never
67. A resolution passed under Clause (1) of Article 249 of the Constitution of India shall remain in force for such period not exceeding
- Three months
 - Six months
 - Nine months
 - Twelve months
68. The power of the Parliament to amend the Constitution of India is a constituent power laid down in Article 368 by
- The Constitution (Twenty-Fourth Amendment) Act
 - The Constitution (Twenty-Sixth Amendment) Act
 - The Constitution (Forty-Second Amendment) Act
 - The Constitution (Forty-Fourth Amendment) Act
69. The appropriate writ issued by Supreme Court to quash the appointment of a person to a public office is
- Certiorari
 - Mandamus
 - Prohibition
 - Quo Warranto
70. The jurisdiction of Supreme Court of India may be enlarged by
- The President of India
 - The Parliament by resolution
 - The Parliament by Law
 - The President in consultation with the Chief Justice of India
71. Which one of the following is considered as 'Invisible hand' in the market economy ?
- Trade
 - Money
 - Competition
 - Demand and supply
72. Which one of the following is the top imported commodity of India in terms of value in the Gems and Jewellery sector in 2019 ?
- Rough Diamonds
 - Gold Bars
 - Polished Diamonds
 - Silver Bars

73. Which among the following is a Zero coupon bond ?

1. T-bill
2. Cash Management bill
3. Certificate of deposit

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 and 3 only

74. Which one of the following Acts provided for private investment in roadways ?

- (a) National Highways Act, 1956
- (b) National Highways Act, 1988
- (c) National Highways Act, 1981
- (d) National Highways Act, 1994

75. What is the main objective of the Krishi UDAN scheme ?

- (a) Help MSME to transport goods
- (b) Offer affordable freight movement through aeroplanes
- (c) Offer affordable air transport to people
- (d) Help farmers to transport agricultural produce

76. Which one of the following is **not** a fixed cost ?

- (a) Rent on land
- (b) Municipal taxes
- (c) Wages paid to workers
- (d) Insurance charges

77. NABARD listed 'Social Bonds' on Bombay Stock Exchange and the funds raised would be used to refinance which one of the following schemes ?

- (a) PMAY
- (b) PM SVANidhi
- (c) Jal Jeevan Mission
- (d) PMGSY

78. 'Jharia Master Plan', is associated with which Union Ministry ?

- (a) Ministry of Coal
- (b) Ministry of MSME
- (c) Ministry of Steel
- (d) Ministry of Jal Shakti

79. 'GREAT' grant is associated with which Union Ministry ?

- (a) Ministry of Textiles
- (b) Ministry of Home Affairs
- (c) Ministry of MSME
- (d) Ministry of Rural Development

80. Which Union Ministry launched the 'eSARAS mobile App' ?
- Ministry of Rural Development
 - Ministry of MSME
 - Ministry of Power
 - Ministry of External Affairs
81. What does the Language Diversity Index measure ?
- The total number of languages spoken in a country
 - The decline in the number of mother tongue speakers worldwide
 - The probability that two people chosen at random have the same mother tongue
 - The linguistic diversity of a country's population
82. Which institution released a report highlighting Growth of Online Gig Work in Developing Nations ?
- IMF
 - WEF
 - World Bank
 - NITI Aayog
83. As per a recent discovery, Earth's High-Energy Electrons may contribute to water formation in which body ?
- Moon
 - Mars
 - Mercury
 - Sun
84. Which institution funds the Veteran Skilling Program to empower Personnel Ladakh's Ex-Army ?
- Airbus
 - Boeing
 - SpaceX
 - ISRO
85. The Constitution (One Hundred and Twenty-Eighth Amendment) Bill, 2023, is associated with
- Reservation of 33% of seats for women in Lok Sabha and State Assemblies
 - Identifying Other Backward Classes
 - Reservation for Economically Weaker Sections
 - Goods and Services Tax
86. Which Indian city is the host of the SemiconIndia 2023 conference ?
- Mumbai
 - Pune
 - Bengaluru
 - Gandhinagar
87. Starlab station is a joint venture of Voyager Space and which institution ?
- Boeing
 - Airbus
 - SpaceX
 - Dhruv

88. The Mines and Minerals Amendment Bill allows private sector to mine how many minerals ?

- (a) Two
- (b) Four
- (c) Six
- (d) Ten

89. Which company is set to launch 'India's first kerosene-oxygen-powered rocket' ?

- (a) Agnikul Cosmos
- (b) Dhruv Cosmos
- (c) Pixxel
- (d) Orbit Cosmos

90. The 'Implementation Plan for Advancing Climate, Environment and Health Science and Services' is for how many years ?

- (a) 5 years
- (b) 10 years
- (c) 20 years
- (d) 25 years

91. Under which one of the following sections of RTI Act, 2005, a Central/State Public Information Officer may reject a request for information where such a request for providing access would involve an infringement of copyright subsisting in a person other than the State ?

- (a) Section 8
- (b) Section 9
- (c) Section 10
- (d) Section 11

92. Consider the following statements :

The definition of "Information" under Section 2(f) of RTI Act, 2005 includes

1. Records
2. Opinions
3. Documents

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

97. Which of the following are correct about an inquiry carried out by an Information Commission ?

1. It may examine any record to which the 'RTI Act, 2005' applies.
2. No such record can be withheld from it (irrespective of any provision of any Act passed by the Parliament or the State Legislature).
3. IC has the powers of a Civil Court trying a suit under the Code of Civil Procedure.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

98. Consider the following statements :

A Public Information Officer will be liable to be imposed a monetary penalty for :

1. refusal to receive an information application.
2. not providing information within specified time limits.
3. destroying information.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

99. Who receives applications under the RTI Act, 2005 ?

1. Public Information Officer at the administrative unit level.
2. Assistant Public Information Officer at the sub-district, sub-divisional levels.
3. Any officer of a Public Authority who is available in the Authority's office when the application is made.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1 and 2 only

100. Consider the following statements :

An applicant making request for information

1. shall give the reason for which the information is sought.
2. shall give the personal details of the applicant.
3. shall not give any reason for requesting the information or any other personal details except those that may be necessary for contacting him.

Which of the above statements is/are correct ?

- (a) 2 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

101. What is the share provided by the Centre in implementation of projects under "North-East Special Infrastructure Development Scheme" ?

- (a) 100%
- (b) 75%
- (c) 50%
- (d) 25%

102. Ministry of Housing and Urban Affairs signed an MoU with which organisation to develop Waste to Energy and bio-methanation projects in million-plus cities ?
- (a) Engineers India Limited
 - (b) Bharat Electronics Limited
 - (c) DRDO
 - (d) Hindustan Aeronautics Limited
103. What is the name of the cluster of digital solutions like Aadhaar, UPI, DigiLocker, CoWin, GeM, and GSTN ?
- (a) Bharat e-platforms
 - (b) India Stack
 - (c) e-Bharat
 - (d) Digi Bharat
104. The Monument Mitra Scheme was transferred from the Ministry of Tourism to which Ministry ?
- (a) Ministry of Culture
 - (b) Ministry of Home Affairs
 - (c) Ministry of External Affairs
 - (d) Ministry of Finance
105. Open Network for Digital Commerce is an initiative of which Union Ministry ?
- (a) Ministry of Commerce and Industry
 - (b) Ministry of MSME
 - (c) Ministry of Labour and Employment
 - (d) Ministry of Skill Development and Entrepreneurship
106. The Prevention of Money Laundering Act was expanded to include which products ?
- (a) Virtual digital assets
 - (b) Real Estate
 - (c) Jewellery
 - (d) Electronics
107. RBI has selected which companies to use AI and ML to improve regulatory supervision ?
- (a) McKinsey and Accenture
 - (b) McKinsey and IBM
 - (c) Deloitte and Accenture
 - (d) Deloitte and IBM
108. Which institution releases the 'Employment Outlook of India' Report ?
- (a) NITI Aayog
 - (b) National Statistical Office
 - (c) Labour Bureau
 - (d) Employees' Provident Fund Organisation

109. Which institution issued a working paper on decline of India's rankings on global indices ?

- (a) NITI Aayog
- (b) Economic Advisory Council to the Prime Minister
- (c) Department of Economic Affairs
- (d) Department of Administrative Reforms and Public Grievances

110. NITI Aayog released the 'Best Practices in Social Sector : A Compendium, 2023', in collaboration with which institution ?

- (a) UNICEF
- (b) UNESCO
- (c) UNDP
- (d) UNEP

111. Which institutions released the 'Gaganyaan Recovery Training Plan' ?

- (a) ISRO and Indian Air Force
- (b) ISRO and Indian Navy
- (c) ISRO and Indian Army
- (d) ISRO and NSIL

112. Which term refers to the phenomenon when currency in circulation is rising even when digital payments are rising ?

- (a) Currency Demand Paradox
- (b) Digital Demand Paradox
- (c) Bank Note Paradox
- (d) Finance Paradox

113. As per a new research, astronauts in longer space missions encountered enlargement of which part of the body ?

- (a) Arteries
- (b) Ventricles
- (c) Nerves
- (d) Pancreas

114. Which country's central bank Governor has been honoured with the 'Governor of the Year' award in 2023 ?

- (a) Sri Lanka
- (b) Afghanistan
- (c) India
- (d) Iran

115. 'SAGAR SAMRIDDHI' is an initiative of which Union Ministry ?

- (a) Ministry of Defence
- (b) Ministry of Jal Shakti
- (c) Ministry of Ports, Shipping and Waterways
- (d) Ministry of External Affairs

116. An outreach programme named "Julley Ladakh" was organized by which organization?

- (a) Indian Navy
- (b) ISRO
- (c) Indian Oil Limited
- (d) Google

117. What is the name of the mascot of National Water Mission ?

- (a) Jal Girl
- (b) Piku
- (c) Tintu
- (d) Mojo

118. High Courts of Allahabad and Delhi affirmed that the right to change one's name is a Fundamental Right under which one of the following Articles of the Constitution of India ?

- (a) Article 13
- (b) Article 18
- (c) Article 21
- (d) Article 23

119. Which is the regulatory authority for civil aviation security in India ?

- (a) BCAS
- (b) NITI Aayog
- (c) DRDO
- (d) ISRO

120. Which one of the following Union Ministries launched the 'LEAN Scheme' ?

- (a) Ministry of Civil Aviation
- (b) Ministry of MSME
- (c) Ministry of Defence
- (d) Ministry of Commerce and Industry

Combined SO (Gr. B) LDCE, 2021-2022

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी. बी. सी. : DFRL-F-PRI



परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1005553

परीक्षण पुस्तिका
प्रश्न-पत्र I



समय : दो घण्टे

पूर्णांक : 150

अनुदेश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की ज़िम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. **सभी** प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अंत में संलग्न हैं।
10. ग़लत उत्तरों के लिए दंड :
उम्मीदवार द्वारा दिए गए ग़लत उत्तरों के लिए दंड दिया जाएगा।
 - (i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक ग़लत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दंड के रूप में काटा जाएगा।
 - (ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे ग़लत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
 - (iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दंड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

11. Consider the following statements :

The Chief Information Commissioner and Information Commissioners shall be appointed by the President on the recommendation of a committee consisting of

1. the Prime Minister, who shall be the Chairperson of the committee.
2. the Leader of Opposition in the Lok Sabha.
3. a Union Cabinet Minister to be nominated by the Prime Minister.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 1 and 3 only
- (d) 2 and 3 only

12. Consider the following statements pertaining to powers and functions of the Information Commission to receive and inquire into a complaint from any person :

1. Who has not been refused access to any information requested under the RTI Act, 2005
2. Who has not been given a response to a request for information or access to information within the time limits specified under the RTI Act, 2005
3. Who believes that he or she has been given incomplete, misleading or false information under the RTI Act, 2005

Which of the above statements are correct ?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

13. The Commission shall impose how much amount as the penalty on each day, if the PIO, without any reasonable cause, refused to receive an application for information till it reaches Rupees twenty-five thousand under the RTI Act, 2005 ?

- (a) ₹ 200
- (b) ₹ 225
- (c) ₹ 250
- (d) ₹ 300

14. The RTI Act, 2005 mandates that all public authorities must proactively disclose certain categories of information. What is this proactive disclosure mechanism called ?

- (a) RTI Monitoring System
- (b) Central Information Portal
- (c) National Public Information Directory
- (d) RTI Annual Report

15. Which one of the following is *not* a method of filing an RTI application ?

- (a) Online through the RTI portal
- (b) By post
- (c) In person to the Chief Information Commissioner
- (d) By hand to the Public Information Officer

16. Who can file an appeal before the Central Information Commission ?
- Only the applicant whose RTI application was rejected
 - Any third party affected by the RTI application
 - Only the Chief Information Commissioner
 - Any citizen who is aggrieved by the decision of the Public Information Officer
17. What is the fee prescribed under the RTI Rules, 2012 for the Below Poverty Line applicant ?
- ₹ 10
 - ₹ 20
 - ₹ 30
 - Exempted from payment of fee
18. Which one of the following is the normal time limit for disposal of the RTI request from the date of receipt ?
- 15 days
 - 20 days
 - 25 days
 - 30 days
19. Which one of the following Sections of the RTI Act, 2005 provides protection to the persons giving information under the Act ?
- Section 11
 - Section 22
 - Section 24
 - Section 27
20. Which Section of the RTI Act, 2005 empowers the Central Government to make rules to carry out the provisions of the Act ?
- Section 18
 - Section 27
 - Section 30
 - Section 32
21. The rule of the law is the basic feature of the Constitution under which specific Article and Clause of the Constitution of India provides that no law (future laws) can be enacted which runs contrary to the fundamental rights guaranteed under Part III of the Constitution of India ?
- Article 13(1)
 - Article 13(2)
 - Article 13(3)
 - Article 13(4)
22. Under the RTI Act, 2005, can the applicant seek information through email or electronic means ?
- Yes, electronic requests are allowed
 - No, only physical applications are accepted
 - Depends on the discretion of the public authority
 - Electronic requests are allowed, but only for certain types of information
23. Under which Clause of Article 16, inserted by the Constitutional (77th Amendment) Act, 1995, stating that "Nothing in this Article shall prevent the State from making any provisions for the reservation in matter of promotion [with consequential seniority] to any class or classes of posts in the services under the State in favour of the Scheduled Castes and the Scheduled Tribes, which, in the opinion of the State, is not adequately represented in the services under the State" ?
- Article 16(1)
 - Article 16(2)
 - Article 16(3)
 - Article 16(4-A)

24. What does the 9th Schedule of the Constitution of India contain ?
- List of Official Languages
 - Panchayati Raj System
 - Laws protected from Judicial review
 - Allocation of seats in the Rajya Sabha
25. Which among the following Constitutional Amendment Act is inserted [co-operative societies] in Clause (1) of the Article 19 ?
- The Constitutional (97th Amendment) Act, 2011
 - The Constitutional (44th Amendment) Act, 1978
 - The Constitutional (4th Amendment) Act, 1955
 - The Constitutional (95th Amendment) Act, 2009
26. Which among the following is **not** correct under Article 19 of the Constitution of India ?
- Freedom of speech and expression
 - Assemble peaceably and with arms
 - Form associations and unions
 - Move freely throughout the territory of India
27. Which one of the following Articles of the Constitution of India deals with "Equal Justice and Free Legal Aid" ?
- Article 14-A
 - Article 38
 - Article 39
 - Article 39-A
28. The Organization of Village Panchayats with specific powers and authority as may be necessary to endow them to function as units of self-government, is mentioned in
- Article 40 of the Constitution of India
 - Article 41 of the Constitution of India
 - Article 42 of the Constitution of India
 - Article 43 of the Constitution of India
29. Consider the following as part of fundamental duties under the Constitution of India :
- To abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem
 - To uphold and protect the sovereignty, unity and integrity of India
 - To promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women
 - To practice any profession or to carry on any occupation, trade or business
- Which of the above fundamental duties is/are correct ?
- 1 only
 - 1 and 2 only
 - 1, 2 and 3 only
 - 1, 2, 3 and 4
30. Consider the following powers of the President of India :
- The executive powers of the Union
 - The power to grant pardon and remit punishment
 - The supreme commander of the Defence forces of the Union
- Which of the above powers is/are correct ?
- 1 only
 - 1 and 2 only
 - 1 and 3 only
 - 1, 2 and 3

31. Which one of the following Schedules of the Constitution of India contains provisions regarding land reforms ?
- Ninth Schedule
 - Twelfth Schedule
 - Fifth Schedule
 - Fourth Schedule
32. Which one of the following Articles of the Constitution of India provides for the establishment of a National Judicial Appointments Commission ?
- Article 124A
 - Article 124C
 - Article 124B
 - Article 124
33. Which one of the following Schedules of the Constitution of India contains the oath or affirmation for members of the Union Council of Ministers ?
- Second Schedule
 - Third Schedule
 - Fourth Schedule
 - Ninth Schedule
34. The National Human Rights Commission of India is formed under which Article of the Constitution of India ?
- Article 21
 - Article 32
 - Article 356
 - Article 377
35. Which among the following Articles of the Constitution of India deals with the Election of the Vice President ?
- Article 63
 - Article 64
 - Article 65
 - Article 66
36. Which one of the following amendments to the Constitution of India introduced the Right to Education as a fundamental right ?
- 83rd Amendment
 - 86th Amendment
 - 88th Amendment
 - 92nd Amendment
37. From the date of expiry of the prescribed period, or from the receipt of communication from the CPIO, what is the time limit for filing of first appeal ?
- Within 15 days
 - Within 20 days
 - Within 25 days
 - Within 30 days
38. The concept of "Socialist" in the Preamble of the Constitution of India was inserted by which one of the following amendments ?
- 42nd Amendment
 - 44th Amendment
 - 46th Amendment
 - 52nd Amendment

39. Which one of the following Schedules of the Constitution of India contains the allocation of seats in the Rajya Sabha to each state and union territory ?
- (a) Second Schedule
 - (b) Fourth Schedule
 - (c) Fifth Schedule
 - (d) Eighth Schedule
40. Which Section of the RTI Act, 2005 deals with the protection for work done in good faith ?
- (a) Section 21
 - (b) Section 22
 - (c) Section 23
 - (d) Section 24
41. Which one of the following Articles of the Constitution of India deals with the appointment and tenure of the Attorney General of India ?
- (a) Article 76
 - (b) Article 88
 - (c) Article 91
 - (d) Article 94
42. The concept of "Equal pay for equal work" is enshrined in which one of the following Articles of the Constitution of India ?
- (a) Article 14
 - (b) Article 39(d)
 - (c) Article 19
 - (d) Article 21(a)
43. Which one of the following Articles of the Constitution of India allows the President to seek advice from the Supreme Court on any matter of public importance ?
- (a) Article 139
 - (b) Article 143
 - (c) Article 148
 - (d) Article 150
44. Which one of the following amendments to the Constitution of India introduced the concept of "Constitutional bodies" ?
- (a) 42nd Amendment
 - (b) 73rd Amendment
 - (c) 89th Amendment
 - (d) 97th Amendment
45. The National Commission for Women was set up as a statutory body in
- (a) January 1990
 - (b) January 1992
 - (c) April 1990
 - (d) April 1992

46. In the context of the Constitution of India, “Double Jeopardy” means
- a person cannot be tried twice for the same offence
 - a person cannot be arrested without a warrant
 - a person cannot be deprived of his property without compensation
 - a person cannot be forced to be a witness against himself
47. The procedure for the amendment of the Constitution is detailed in which part of the Constitution of India ?
- Part II
 - Part XIV
 - Part XX
 - Part XXI
48. The phrase “We, the people of India” in the Preamble of the Constitution of India signifies
- Socialist principles
 - Democratic principles
 - Secular principles
 - Sovereign power of the people
49. In India, the power to levy and collect taxes is divided between the Central and State Governments. This division is provided under which one of the following Articles of the Constitution of India ?
- Article 246
 - Article 268
 - Article 270
 - Article 275
50. What is the total number of writs which High Courts can issue ?
- 4
 - 5
 - 6
 - 7
51. The distribution of powers between the Union and States in the Constitution of India is based on the recommendations of which one of the following Commissions ?
- Justice Verma Commission
 - Rajamannar Commission
 - Fazal Ali Commission
 - Venkatachaliah Commission
52. Which one of the following is **not** a feature of a federal system of Government ?
- Division of powers between the Central and State Governments
 - A written Constitution
 - Single citizenship
 - Bicameral legislature
53. Which one of the following statements is **not** correct regarding the President of India ?
- The President of India is part of the Parliament.
 - The President of India can on his own dismiss a Union Minister for misconduct.
 - The President of India can ask the Union Council of Ministers to re-consider its advice given to him.
 - The President of India can pardon a person sentenced to death.

54. Which writ can be issued in case of illegal arrest ?
- Mandamus
 - Habeas corpus
 - Quo warranto
 - Prohibition
55. Consider the following statements regarding the election of the President of India :
- Every Member of Parliament can vote in the election of the President of India.
 - Every elected Member of Parliament can vote in the election of the President of India.
 - Every elected member of a State Legislative Assembly can vote in the election of the President of India.
- Which of the above statements is/are **not** correct ?
- 1 only
 - 2 and 3 only
 - 3 only
 - 1 and 2 only
56. In context of the Constitution of India, what is the significance of "Writ of Mandamus" ?
- It orders a public official to perform his/her duty correctly
 - It is a writ against unlawful detention
 - It is a writ for the enforcement of non-fundamental rights
 - It is a writ for acquiring lands and properties
57. No fundamental rights can be claimed against
- a Government company
 - a Municipal corporation
 - a Court
 - a Statutory corporation
58. Parliament **cannot** make law on which one of the following subjects, except for a Union Territory ?
- Insurance
 - Railways
 - Banking
 - Fisheries
59. The "Doctrine of Pleasure" is related to the tenure of which constitutional authority in India ?
- Governor of State
 - Chief Justice of India
 - Chief Information Commissioner
 - Chief Election Commissioner
60. Right to Property has been provided under which one of the following Articles of the Constitution of India ?
- Article 19(1)(f)
 - Article 31
 - Article 300A
 - Article 301

61. Which fundamental right is *not* guaranteed under the Constitution of India to the majority, but is guaranteed to the minorities ?
- Right under Article 15
 - Right under Article 19
 - Right under Article 25
 - Right under Article 30
62. The system of “Proportional Representation by Means of the Single Transferable Vote” is used for the election of
- President of India
 - Members of the Lok Sabha
 - Members of the Rajya Sabha
 - Members of the Legislative Councils
63. Who among the following has the power to summon a joint sitting of both the Houses of Parliament in India ?
- President of India
 - Prime Minister of India
 - Minister of Home Affairs of India
 - Vice President of India
64. If a person occupies a public office illegally, which one of the following writs/orders can be issued against him/her for getting the office vacated ?
- Quo warranto
 - Prohibition
 - Certiorari
 - Permanent injunction
65. The “Pradhan Mantri Gram Sadak Yojana” focuses on
- Providing broadband connectivity in rural areas
 - Rural electrification
 - Skill development in villages
 - Connecting rural areas with all-weather roads
66. The “Smart Cities Mission” was launched to promote the development of 100 smart cities with
- Advanced healthcare facilities
 - Sustainable and citizen-friendly infrastructure
 - World-class educational institutions
 - State-of-the-art transportation systems
67. The “National Food Security Act” aims to provide subsidized food grains to what percentage of the rural population ?
- 50%
 - 60%
 - 75%
 - 90%
68. The “Swadesh Darshan” scheme focuses on the development of
- Smart cities
 - Heritage cities
 - Religious tourism circuits
 - Industrial corridors
69. The “Rashtriya Madhyamik Shiksha Abhiyan” focuses on improving the quality of
- Higher education
 - Secondary education
 - Primary education
 - Technical education
70. Which one of the following terms refers to the difference between a country’s total exports and total imports ?
- Fiscal deficit
 - Current account deficit
 - Trade deficit
 - Budget deficit

71. Which one of the following economic reforms was introduced in India in 1991 to liberalize and open up the economy ?
- New Industrial Policy
 - Nationalization of Banks
 - Green Revolution
 - Education Policy
72. The Economic Survey of India is published annually by
- Reserve Bank of India
 - Ministry of Finance
 - Planning Commission of India
 - Ministry of Commerce and Industry
73. Which index is used to measure the performance of the Bombay Stock Exchange ?
- NIFTY
 - Sensex
 - NASDAQ
 - Dow Jones Industrial Average
74. The time when the Members of Parliament can raise issues of urgent public importance is called
- Notice period
 - Cooling-off period
 - Stipulated interval
 - Zero hour
75. Which one of the following motions is moved after the President's address to both the Houses of Parliament at the beginning of the Budget session ?
- Motion of Thanks
 - Motion of Confidence
 - Motion of No-Confidence
 - Motion of Withdrawal
76. The Supreme Court of India has the power to review its own judgments under which one of the following Articles of the Constitution of India ?
- Article 129
 - Article 137
 - Article 141
 - Article 142
77. In Lok Sabha, the resignation of a Member is addressed to the
- Speaker of Lok Sabha
 - Prime Minister of India
 - President of India
 - Leader of the Opposition party
78. Geetanjali Shree's translated Hindi novel '*Tomb of Sand*' won which one of the following literary awards/prizes in 2022 ?
- Paris literary award
 - Grand Prix Booker Prize
 - European literary award
 - International Booker Prize
79. In Rajya Sabha, a money bill passed by the Lok Sabha is returned to the Lower House with the Rajya Sabha's recommendations. If the Lok Sabha does **not** accept any of the recommendations, it is deemed to be :
- Passed by both the Houses of Parliament
 - Rejected by both the Houses of Parliament
 - Passed by the Lok Sabha alone
 - Passed by the Rajya Sabha alone

80. Who among the following determines the functions of the committees in the Lok Sabha ?
- Speaker of Lok Sabha
 - President of India
 - Council of Ministers
 - Rules Committee of Lok Sabha
81. In Rajya Sabha, what is the maximum time limit for a discussion on a motion of thanks to the President for his/her address ?
- 6 hours
 - 10 hours
 - 12 hours
 - 16 hours
82. What is the minimum number of members required to table a "No-Confidence Motion" in the Lok Sabha ?
- 10
 - 20
 - 30
 - 50
83. Which one of the following bird sanctuaries is situated on the banks of the river Kaveri in Karnataka ?
- Kumarakom bird sanctuary
 - Nal Sarovar bird sanctuary
 - Bakhira bird sanctuary
 - Ranganathittu bird sanctuary
84. Which one of the following Indian classical dances has steps comprising of Adavus : Taganam, Jaganam, Dhaganam and Sammisram ?
- Kuchipudi
 - Mohiniyattam
 - Sattriya
 - Manipuri
85. Which one of the following Articles of the Constitution of India is considered for prohibition of employment of children in factories ?
- Article 24
 - Article 19
 - Article 39A
 - Article 23
86. Which one of the following Articles of the Constitution of India is considered to raise the level of nutrition and the standard of living of people and improve public health ?
- Article 19
 - Article 47
 - Article 15
 - Article 16
87. The Public Accounts Committee consists of not more than
- 22 Members, 15 Members elected by Lok Sabha and not more than 7 Members elected by Rajya Sabha.
 - 23 Members, 16 Members elected by Lok Sabha and not more than 7 Members elected by Rajya Sabha.
 - 22 Members, 7 Members elected by Lok Sabha and not more than 15 Members elected by Rajya Sabha.
 - 23 Members, 7 Members elected by Lok Sabha and not more than 16 Members elected by Rajya Sabha.

88. The term “point of order” in the context of parliamentary proceedings refers to
- a request by a member to make a formal statement
 - a request by a member to ask a question out of turn
 - a member’s objection regarding the violation of parliamentary rules
 - a member’s request for an extension of time for a debate
89. Miami in USA has the highest number of Art Deco buildings. Which one of the following Indian cities is second in this list ?
- Hyderabad
 - Kolkata
 - Chennai
 - Mumbai
90. Which one of the following was deployed to SE Asia as a part of Mission Sagar-III to provide Humanitarian Assistance and Disaster Relief aid to Vietnam and Cambodia in the form of flood relief package material kits ?
- INS Visakhapatnam
 - INS Ramsethu
 - INS Airavat
 - INS Kiltan
91. Report of the Comptroller and Auditor General of India relating to the accounts of the Union shall be submitted to the
- Prime Minister of India
 - President of India
 - Vice President of India
 - Supreme Court of India
92. The “National Investment and Manufacturing Zones” aim to promote
- Agricultural development
 - Manufacturing industries
 - Information technology sector
 - Tourism and hospitality sector
93. Consider the following objectives :
- The “Open Market Operations” is a monetary policy tool used by the Reserve Bank of India to
- Control inflation
 - Control fiscal deficit
 - Regulate foreign exchange rates
 - Regulate interest rates
- Which of the above objectives are correct ?
- 1 and 2 only
 - 3 and 4 only
 - 1, 2 and 4 only
 - 1, 2, 3 and 4
94. The President of India can promulgate an ordinance when
- both Houses of Parliament are in session
 - there is a financial emergency
 - there is a State emergency
 - both Houses of Parliament are not in session

95. The President of India can dissolve the Lok Sabha on the advice of the
- Council of Ministers
 - Chief Justice of India
 - Speaker of Lok Sabha
 - Election Commission of India
96. The “Quad” is a strategic forum comprising the United States of America, India, Japan, and which one of the following countries ?
- Australia
 - South Korea
 - Germany
 - France
97. The “Northern Sea Route” is a shipping route that connects the Atlantic Ocean to the Pacific Ocean through which one of the following regions ?
- Arctic Ocean
 - Indian Ocean
 - Mediterranean Sea
 - South China Sea
98. The “Suez Canal” connects which of the following two water bodies ?
- Red Sea and Gulf of Aden
 - Mediterranean Sea and Atlantic Ocean
 - Arabian Sea and Bay of Bengal
 - Mediterranean Sea and Red Sea
99. The “SCO Summit” is a meeting of the member states of the Shanghai Cooperation Organization. How many permanent members are there in the SCO ?
- 6
 - 8
 - 9
 - 12
100. “SpaceX” is a private aerospace manufacturer and space transportation company founded by which one of the following entrepreneurs ?
- Elon Musk
 - Jeff Bezos
 - Richard Branson
 - Mark Zuckerberg
101. Which of the following pairs of floristic regions is/are correctly matched ?
- The Western Himalayan region : Darjeeling and Kurseong
 - The Eastern Himalayan region : Kashmir to Kumaon
 - The Indus Plain region : Punjab, Western Rajasthan and Northern Gujarat
- Select the correct answer using the code given below :
- 1 only
 - 1 and 2 only
 - 3 only
 - 1, 2 and 3
102. The “Marginal Standing Facility” is a window for banks to borrow funds from the Reserve Bank of India at
- the repo rate
 - a rate lower than the repo rate
 - a rate higher than the repo rate
 - zero interest rate

103. Which of the following pairs of Women Tennis Grand Slam winners and their countries is/are correctly matched ?

<i>Players</i>	<i>Country</i>
1. Serena Williams	: USA
2. Steffi Graf	: Australia
3. Margaret Court	: Germany

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 3 only

104. Consider the following statements :

1. The Ministry of Law and Justice comprises three departments, namely the Department of Legal Affairs, the Legislative Department and the Department of Justice.
2. The Indian Legal System comprises four components, namely the basic values and principles enshrined in the constitution; rights and obligations conferred by ordinary statutes; organizational set-up to enforce these rights and obligations within the constitutional norms; and the legal and judicial personnel.

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

105. Consider the following statements :

1. The main sources of law in India are the Constitution, Statutes (Legislations), Customary Law and Case Law.
2. Decisions of the Supreme Court are not binding in all courts within the territory of India.

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

106. Consider the following statements :

1. The Parliament is competent to make laws on matters enumerated in the Union list and similarly, the State Legislatures are competent to make laws on matters enumerated in the State list.
2. The Parliament alone has the power to make laws on matters not included in the State list or Concurrent list.

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

107. India remains among the top three largest contributors with more than 5,700 personnel deployed in 9 of 12 UN Peacekeeping Missions. These personnel deployed are :

1. Military
2. Police
3. Civilian

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) 3 only

108. Which one of the following policies/programmes refers to 'Self-reliant India' or 'Self-sufficient India' for making India a bigger and more important part of the global economy ?

- (a) Sarva Shiksha Abhiyan
- (b) National Health Mission
- (c) Mahatma Gandhi National Rural Employment Guarantee Scheme
- (d) Atmanirbhar Bharat

109. Which one of the following member countries of G20 has presently taken over the Presidency till November 30, 2023, who plays a leading role in setting the agenda and organizes the leaders' summits ?

- (a) Indonesia
- (b) India
- (c) Russia
- (d) Germany

110. BRICS is an acronym that stands for

- (a) Brazil, Russia, Indonesia, China and South Africa
- (b) Brazil, Russia, India, China and South Africa
- (c) Brazil, Russia, India, Canada and South Africa
- (d) Brazil, Russia, India, China and South Korea

111. Which one of the following programmes under Maternal and Child Health covers the four Ds, i.e., defect at birth, diseases, deficiencies and development delays including disability ?

- (a) Rashtriya Bal Swasthya Karyakram
- (b) Rashtriya Kishor Swasthya Karyakram
- (c) Janani Shishu Suraksha Karyakram
- (d) Janani Suraksha Yojana

112. Which of the following statements is/are correct about the New Education Policy under NEP 2020 in Higher Education ?

- 1. NEP 2020 aims to increase gross enrolment ratio in higher education to 50 percent by 2035
- 2. The policy envisages a broad-based, multi-disciplinary, holistic under-graduate education system
- 3. Establishment of an Academic Bank Credit for digitally storing academic credit earned from different higher education institutions
- 4. Once admission is taken, there is no provision for multiple entry and exit from the programme

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

113. Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) is a programme initiated and designed to achieve cardinal principles of the education policy. Which of the following principles is/are correct ?

- 1. Access
- 2. Equity
- 3. Quantity
- 4. Quality

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 4 only
- (d) 1, 2, 3 and 4

114. Which one of the following schemes has been launched for the creation of infrastructure, support industries, social development projects and livelihood activities for youth and women ?
- (a) Swadesh Darshan
 - (b) PARIVESH
 - (c) ECLGS
 - (d) PM DevINE
115. Which one of the following cities hosted the Flow Chemistry Technology Hub in 2022 ?
- (a) Delhi
 - (b) Hyderabad
 - (c) Mumbai
 - (d) Kolkata
116. The world's largest floating solar power plant is located in
- (a) Madhya Pradesh
 - (b) Rajasthan
 - (c) Chhattisgarh
 - (d) Andhra Pradesh
117. Which one of the following juicy vegetables is traditionally cultivated as a mixed crop by Naga farmers in Jhum cultivation ?
- (a) Cucumber
 - (b) Carrot
 - (c) Bitter Gourd
 - (d) Beetroot
118. Which one of the following UNESCO world heritage sites was severely damaged by the victors of the battle of Talikota, leading it to be abandoned ?
- (a) Kakatiyas
 - (b) Elephanta
 - (c) Art Deco
 - (d) Hampi
119. Which one of the following animals is in the title of Benyamin's 2008 book about migrant labourers to the Middle East ?
- (a) Dog
 - (b) Goat
 - (c) Pig
 - (d) Cat
120. The original copies of the Constitution of India are kept in the Parliament library in cases filled with which one of the following inert gases ?
- (a) Helium
 - (b) Nitrogen
 - (c) Argon
 - (d) Hydrogen

Examination:		SO (GR-B) LDCE-2021-2022													
Series: A		Subject		PAPER-I											
Max. marks		150		No. of Items dropped:		02									
Items to be taken for scoring:		118													
1	D	16	D	31	A	46	A	61	D	76	B	91	B	106	C
2	D	17	D	32	A	47	C	62	C	77	A	92	B	107	C
3	C	18	D	33	B	48	D	63	A	78	D	93	D	108	D
4	D	19	X	34	A	49	C	64	A	79	A	94	D	109	B
5	C	20	B	35	D	50	B	65	D	80	A	95	A	110	B
6	C	21	B	36	B	51	X	66	B	81	C	96	A	111	A
7	B	22	A	37	D	52	C	67	C	82	D	97	A	112	C
8	D	23	D	38	A	53	B	68	C	83	D	98	D	113	C
9	B	24	C	39	B	54	B	69	B	84	B	99	C	114	D
10	C	25	A	40	A	55	A	70	C	85	A	100	A	115	B
11	B	26	B	41	A	56	A	71	A	86	B	101	C	116	A
12	B	27	D	42	B	57	C	72	B	87	A	102	C	117	A
13	C	28	A	43	B	58	D	73	B	88	C	103	A	118	D
14	D	29	C	44	C	59	A	74	D	89	D	104	C	119	B
15	C	30	D	45	B	60	C	75	A	90	D	105	A	120	A

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी.बी.सी. : GHYT-U-PRI

परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

परीक्षण पुस्तिका

1004001

प्रश्न-पत्र—I



समय : दो घण्टे

पूर्णांक : 150

अ नु दे श

1. परीक्षा प्रारम्भ होने के तुरन्त बाद आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि **OMR** उत्तर-पत्रक में उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम **A, B, C** या **D** को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ** न लिखें।
4. इस परीक्षण पुस्तिका में **120** प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. सभी प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अन्त में संलग्न हैं।
10. गलत उत्तरों के लिए दण्ड :
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए गलत उत्तरों के लिए दण्ड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का **एक-तिहाई** दण्ड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे गलत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही उसी तरह का दण्ड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए **कोई दण्ड नहीं** दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

1. Which one of the following statements is **not** correct?

- (a) The President of India appoints the judges of the Supreme Court in accordance with the provisions of Article 124 of the Constitution of India.
- (b) The President of India appoints the judges of the Supreme Court on the basis of the recommendations of the collegium.
- (c) The President of India appoints the Chief Justice of India on the basis of the recommendations of the collegium.
- (d) The number of judges in the collegium for recommending appointment of judges in the Supreme Court and High Courts is not the same.

2. Which provision of the Constitution of India refers to a political party?

- (a) Election of the President of India under Article 55
- (b) Disqualification for membership of the Parliament under Article 102
- (c) Superintendence, direction and control of elections under Article 324
- (d) Defection under Tenth Schedule

3. Among the riverine major ports in India, which one of the following is the oldest port having been in existence for more than 100 years?

- (a) Cochin Port
- (b) New Mangalore Port
- (c) Paradip Port
- (d) Kolkata Port

4. Which one of the following statements is **not** correct?

- (a) Article 370 of the Constitution of India has not been repealed.
- (b) Article 370 of the Constitution of India is no more a part of the Constitution of India.
- (c) Jammu and Kashmir has become a Union Territory by amending the Constitution of India.
- (d) The status of Jammu and Kashmir as a Union Territory is not identical with that of Delhi.

5. Under which Article of the Constitution of India can reservations for physically challenged persons be justified?

- (a) Article 14 and/or Article 16(1)
- (b) Article 15(4)
- (c) Article 16(4)
- (d) Article 16(6)

6. If any person other than the one covered under Article 30 of the Constitution of India establishes a college, which Fundamental Right can be claimed by him/her for managing that institution?

- (a) Right to equality under Article 14
- (b) Right to one of the freedoms under Article 19(1)
- (c) Right under Article 29
- (d) Right under Article 41

7. Which one of the following Fundamental Rights **cannot** be restricted on the ground of morality?

- (a) Right of freedom under Article 19(1)(a)
- (b) Right under Article 25
- (c) Right of freedom under Article 19(1)(d)
- (d) Right under Article 26

8. Right to freedom of conscience and free profession is guaranteed to a Hindu that includes which of the following?

- 1. Buddhist
- 2. Jaina
- 3. Sikh

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

9. Consider the following statements :

- 1. Conferment of Padma Awards does not amount to conferring title under Article 18 of the Constitution of India.
- 2. No citizen of India shall accept any title from any foreign State.
- 3. A person not being a citizen of India can be appointed by the Government of India to any office of profit and he/she can accept any title from any foreign State.

Which of the above statements is/are **not** correct?

- (a) 1 only
- (b) 2 only
- (c) 3 only
- (d) 1, 2 and 3

10. Which writ can be issued against a private trust/institution for failure to give effect to rules made by the Government?

- (a) Mandamus
- (b) Prohibition
- (c) Quo warranto
- (d) Certiorari

11. The 'Pradhan Mantri Fasal Bima Yojana (PMFBY)' provides insurance coverage to farmers against losses due to which of the following?

1. Earthquakes
2. Droughts
3. Floods
4. Cyclones

Select the correct answer using the code given below.

- (a) 1 only
(b) 2, 3 and 4 only
(c) 2 only
(d) 1, 2, 3 and 4

12. The 'Atmanirbhar Bharat Abhiyan' focuses on which of the following pillars?

1. Economy
2. Infrastructure
3. Demography
4. System
5. Demand

Select the correct answer using the code given below.

- (a) 1, 3 and 4 only
(b) 2, 4 and 5 only
(c) 1, 2, 3, 4 and 5
(d) 3 and 5 only

13. Consider the following statements :

1. Adaptability skill involves a person's ability to adjust to change in his/her environment.
2. Being adaptable does not mean that in one's career one can be able to respond quickly to changing ideas, responsibilities, expectations, trends, strategies and other processes at work.

Which of the above statements is/are correct?

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

14. A standard COVID-specific product was launched as 'Corona Kavach Policy' in the year 2020 to address basic health insurance coverage for public ranging from

- (a) ₹ 50,000 to ₹ 5,00,000
(b) ₹ 60,000 to ₹ 6,00,000
(c) ₹ 70,000 to ₹ 7,00,000
(d) ₹ 75,000 to ₹ 7,75,000

15. Who was the first Comptroller and Auditor General of India soon after Indian Independence?

- (a) Shri Anil Kumar Chanda
(b) Shri S. Ranganathan
(c) Shri Girish Chandra Murmu
(d) Shri V. Narahari Rao

16. In India, from 2006, the day 21 April is celebrated every year as the

- (a) National Science Day
- (b) National Ujjwala Day
- (c) National Panchayati Raj Day
- (d) Indian Civil Services Day

17. The 'Kisan Samman Nidhi' scheme aims to provide direct income support to farmers who own cultivable land up to an extent of

- (a) 1 hectare
- (b) 2 hectares
- (c) 5 hectares
- (d) 10 hectares

18. What is the minimum percentage of export value required for an industrial unit to be eligible for the 'Export Oriented Unit' status in India?

- (a) 25%
- (b) 33%
- (c) 50%
- (d) 75%

19. In 2022 Commonwealth Games, India has a spectacular run with a total 61 medals (22 Gold, 16 Silver and 23 Bronze) placing it at

- (a) 3rd rank
- (b) 4th rank
- (c) 5th rank
- (d) 6th rank

20. Match the following Lists :

List-I

P. Swamitva Yojana

Q. RAMP Scheme

R. Samarth Yojana

S. Manodarpan Scheme

List-II

1. Improving Centre-State linkages, partnership and accelerating MSME performance

2. 'Records of Rights' to village household owners with issuance of legal ownership

3. To provide psychological support to school, college and university students for their mental health and well-being during the COVID outbreak and beyond

4. To provide 5 lakhs certified and trained tyre mechanics by 2022

Select the correct answer using the code given below.

(a) P Q R S

2 1 4 3

(b) P Q R S

2 1 3 4

(c) P Q R S

3 4 2 1

(d) P Q R S

3 4 1 2

21. Which one of the following Articles of the Constitution of India deals with the President's rule in a State?

(a) Article 352

(b) Article 356

(c) Article 360

(d) Article 370

- 22.** Which one of the following is **not** a wing of Cabinet Secretariat?
- (a) Civil wing
(b) Military wing
(c) Administrative wing
(d) Intelligence wing
- 23.** Which one of the following Articles of the Constitution of India deals with the Council of Ministers?
- (a) Article 44
(b) Article 74
(c) Article 101
(d) Article 123
- 24.** Which one of the following constitutional amendments introduced the Goods and Services Tax in India?
- (a) 100th Amendment
(b) 101st Amendment
(c) 122nd Amendment
(d) 125th Amendment
- 25.** Which one of the following Parts of the Constitution of India deals with the Directive Principles of State Policy?
- (a) Part II
(b) Part III
(c) Part IV
(d) Part V
- 26.** Which one of the following constitutional amendments lowered the voting age from 21 years to 18 years?
- (a) 42nd Amendment
(b) 61st Amendment
(c) 73rd Amendment
(d) 86th Amendment
- 27.** How many Fundamental Rights are guaranteed to Indian citizens under the Constitution?
- (a) 4
(b) 6
(c) 8
(d) 10
- 28.** The term 'Lok Sabha' is borrowed from which one of the following languages?
- (a) Hindi
(b) Sanskrit
(c) Urdu
(d) English
- 29.** The President of India can nominate how many members to the Rajya Sabha?
- (a) 6
(b) 10
(c) 12
(d) 16
- 30.** Which one of the following Articles of the Constitution of India deals with the appointment and removal of the Vice President?
- (a) Article 54
(b) Article 62
(c) Article 76
(d) Article 67

31. Consider the following statements with reference to the Constitution of India :

1. The word 'socialist' used in the Preamble is directly related to the principles contained under Article 39.
2. The word 'secular' used in the Preamble is directly related to Article 29.
3. The words 'unity and integrity of the nation' used in the Preamble are directly related to Article 51A.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

32. Consider the following statements with regard to the Fundamental Rights :

1. The Parliament has power to modify the rights conferred by Part III of the Constitution of India with regard to persons employed in telecommunication systems of certain categories.
2. During the course of enforcement of martial law in any area, restrictions can be imposed on the exercise of the Fundamental Rights.
3. The Fundamental Rights cannot be overridden for implementing any of the Directive Principles of State Policy.

Which of the above statements is/are **not** correct?

- (a) 1 only
- (b) 2 only
- (c) 3 only
- (d) 1, 2 and 3

33. Consider the following statements with regard to election of the President of India :

1. The members of the House of the People can vote.
2. The elected members of the Council of States can vote.
3. The elected members of the State Legislatures can vote.

Which of the above statements is/are **not** correct?

- (a) 1 only
- (b) 2 only
- (c) 3
- (d) 1 and 2

34. Coordination and organization can include several different aspects that can make necessary to develop one's adaptability skill. Consider the following steps, which can help in developing and improving adaptability skill :

1. Be aware of change in your environment
2. Never ask for feedback
3. Develop a growth mindset
4. Set goals for yourself

Which of the above steps are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3 and 4

35. Which of the following States in India has the largest producer of coffee crop?

- (a) Kerala
- (b) Maharashtra
- (c) Telangana
- (d) Karnataka

36. Consider the following statements :

The Constitution of India confers power on the Governor to reserve a Bill passed by a State Legislature for consideration by the President of India

1. when the Bill is inconsistent with any law made by the Parliament
2. for any Bill
3. when the Bill seeks to give effect to the Directive Principle mentioned under Article 39(b)

Which of the above statements is/are correct?

- (a) 1
- (b) 2 only
- (c) 3 only
- (d) 2 and 3

37. The Constitution of India does **not** require the constitution of Panchayats at

- (a) village level
- (b) intermediate level with a population exceeding 20 lakhs
- (c) all intermediate levels
- (d) district level

38. Which among the following Ministries of the Government of India is conducting the decennial census which rests to the Office of the Registrar General and Census Commission?

- (a) The Ministry of Home Affairs
- (b) The Ministry of Information and Broadcasting
- (c) The Ministry of Education
- (d) The Ministry of Law and Justice

39. Which one of the following actions/decisions/declarations has **not** been treated final under the Constitution of India?

- (a) Dispensation of an enquiry into the misconduct of a civil servant on the ground that it was not practicable to hold the enquiry
- (b) A declaration made in a law made by the Parliament that it was for giving effect to the Directive Principle relating to economic system with a view to control concentration of wealth
- (c) Advice tendered by the Ministers to the President of India
- (d) Decision of the Speaker of the House of the People regarding disqualification of a member of that House on the ground of defection

40. Which one of the following statements relating to the Constitution of India is **not** correct?

- (a) The provisions of Articles 324 to 329 apply equally to States as well as Union Territories.
- (b) Only some of the provisions of Articles 324 to 329 apply to one Union Territory.
- (c) The provisions of Articles 124(4) and 124(5) apply to both the Supreme Court and all the High Courts.
- (d) The definition of 'State' provided under Article 12 applies to both the Fundamental Rights as well as the Directive Principles of State Policy.

- 41.** Which one of the following statements is correct about the Zero Hour in the Rajya Sabha?
- (a) It is mentioned in the Rules of Procedure.
- (b) It is the first hour of the sitting.
- (c) It is the last hour of the sitting.
- (d) It is an informal opportunity for raising matters of urgent public importance.
- 42.** Which one of the following constitutional amendments introduced anti-defection laws in India?
- (a) 42nd Amendment
- (b) 52nd Amendment
- (c) 73rd Amendment
- (d) 91st Amendment
- 43.** The National Human Rights Commission (NHRC) is
- (a) a constitutional body
- (b) a statutory body
- (c) an autonomous body
- (d) a Government department
- 44.** Which Union Ministry is responsible for the administration of Central Armed Police Forces (CAPF)?
- (a) The Ministry of Defence
- (b) The Ministry of Home Affairs
- (c) The Ministry of External Affairs
- (d) The Ministry of Finance
- 45.** The term 'Vote on Account' is related to
- (a) General Elections
- (b) State Budget
- (c) Interim Budget
- (d) Local Body Elections
- 46.** Which constitutional body is responsible for conducting enquiries and taking appropriate action in cases of violation of the Code of Conduct by MPs?
- (a) The Election Commission of India
- (b) The Lok Sabha Speaker
- (c) The Rajya Sabha Chairman
- (d) The Ethics Committee of the Parliament
- 47.** The Preamble of the Constitution of India reflects the ideals of
- (a) equality, liberty and fraternity
- (b) sovereignty, socialism and secularism
- (c) justice, liberty, equality and fraternity
- (d) socialism, secularism and democracy
- 48.** Which one of the following Schedules of the Constitution of India specifies the languages of India?
- (a) First Schedule
- (b) Fifth Schedule
- (c) Eighth Schedule
- (d) Tenth Schedule

49. Which one of the following is **not** a type of writ issued by the Supreme Court or the High Courts in India?

- (a) Habeas corpus
- (b) Mandamus
- (c) Curfew
- (d) Certiorari

50. The Lokpal and Lokayuktas Act, 2013 provides for the establishment of the

- (a) Anti-Corruption Bureau
- (b) Corruption Eradication Commission
- (c) Ombudsman for Corruption Cases
- (d) Special Investigation Team

51. The 'Production Linked Incentive (PLI)' scheme was launched to promote domestic manufacturing in various sectors. Which of the following sectors were covered under this scheme?

1. Pharmaceuticals
2. Electronics
3. Textiles
4. Automobiles

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2, 3 and 4
- (d) 2, 3 and 4 only

52. According to the India's State of Forest Report, 2021, based on area-wise, which one of the following States is having the largest forest cover in the country?

- (a) Madhya Pradesh
- (b) Arunachal Pradesh
- (c) Chhattisgarh
- (d) Maharashtra

53. Which one of the following statements is correct pertaining to power given to police under the Criminal Procedure (Identification) Act, 2022?

- (a) It empowers the police to obtain physical and biological samples of only convicts of crime.
- (b) It empowers the police to obtain physical and biological samples of only accused of crime.
- (c) It empowers the police to obtain physical and biological samples of only suspected persons of crime.
- (d) It empowers the police to obtain physical and biological samples of convicts and those accused of crime.

54. Which one of the following is **not** correct pertaining to the eligibility for the appointment of the Chief of Defence Staff in India?

- (a) An officer must be either serving or retired Lieutenant General
- (b) An officer must be either serving or retired Air Marshal
- (c) An officer must be either serving or retired Vice Admiral
- (d) An officer must be either serving or retired JCO ranks

55. Consider the following statements about the 'Agniveer' scheme for Indian youth to serve in the armed forces :

1. Aspirants will be appointed on the contract basis for a period of four years.
2. Young people in the age group of 18–22 years can join.
3. The age limit was later increased to 23 years for the first batch of the aspirants.
4. Up to 20% of each batch will be enrolled as regular cadre.

Which of the above statements are **not** correct?

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 and 4
- (d) 2 and 4

56. The 'Foreign Direct Investment' policy in India is regulated by

- (a) the Ministry of Commerce and Industry
- (b) the Reserve Bank of India
- (c) the Ministry of External Affairs
- (d) the Securities and Exchange Board of India

57. Which among the following represent the correct colours of five intertwined rings on the Olympic Flag?

- (a) Blue, White, Black, Green and Red
- (b) Blue, Yellow, Black, Green and Red
- (c) Purple, Yellow, Black, Green and Red
- (d) Blue, Yellow, Black, Green and Brown

58. Match the following Lists :

<i>List-I</i>	<i>List-II</i>
P. The Nobel Prize in Peace, 2022	1. Alain Aspect, John Clauser and Anton Zeilinger
Q. The Nobel Prize in Chemistry, 2022	2. Annie Ernaux
R. The Nobel Prize in Literature, 2022	3. Ales Bialiatski
S. The Nobel Prize in Physics, 2022	4. Carolyn Bertozzi, Morten Meldal and Barry Sharpless

Select the correct answer using the code given below.

- (a) P Q R S
 2 1 3 4
- (b) P Q R S
 1 2 3 4
- (c) P Q R S
 3 4 2 1
- (d) P Q R S
 4 3 2 1

59. Which Government agency is responsible for conducting the 'Economic Census' in India?

- (a) The Reserve Bank of India
- (b) The Ministry of Finance
- (c) The Ministry of Corporate Affairs
- (d) The Ministry of Statistics and Programme Implementation

60. The Fiscal Responsibility and Budget Management Act, 2003 aims to bring down the fiscal deficit to a certain percentage of GDP. What is the target fiscal deficit as per the Act?

- (a) 3.5%
- (b) 4.5%
- (c) 5.5%
- (d) 6.5%

61. The Constitution of India contains special provisions for

- (a) Punjab
- (b) Uttarakhand
- (c) Gujarat
- (d) Jammu and Kashmir

62. Consider the following statements :

No Act of the Parliament is applicable to

1. ownership and transfer of land in the States of Mizoram and Nagaland
2. administration of criminal justice involving decisions according to Mizo or Naga customary law

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

63. Which of the following States are involved in paying/receiving a fixed amount of money to/from Travancore Devaswom Fund under the Constitution of India?

- (a) Tamil Nadu and Kerala
- (b) Andhra Pradesh and Karnataka
- (c) Kerala and Andhra Pradesh
- (d) Tamil Nadu and Karnataka

64. Under the Abolition and Rehabilitation of Bonded Labours Scheme, which among the following statements is/are correct?

1. The Central Government bears 100 percent expenditure and the States are not required to pay any contribution for the purpose of cash rehabilitation assistance for bonded labour.
2. Bonded labour rehabilitation fund is created at the district level by each State with permanent corpus of at least ₹ 10 lakhs at the disposal of the District Magistrate.
3. Immediate financial assistance of ₹ 50,000 per rescued labourer is provided by the concerned District Magistrate from the corpus fund.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

65. Consider the following statements :

1. A citizen cannot be discriminated only on the ground of place of birth but the Parliament can make law prescribing any requirement as to residence within a State with regard to any class of employment in the State.
2. There can be no discrimination only on the ground of religion but law may prescribe a requirement that an incumbent to an office in connection with any religious institution should belong to a particular religion to which the institution belongs.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

66. Which one of the following has been expressly included in Part III of the Constitution of India?

- (a) Company
- (b) Partnership
- (c) Trust
- (d) Cooperative society

67. Which one of the following is included in the prohibition provided under Article 20(3)?

- (a) Giving of finger impression
- (b) Giving of sample of handwriting
- (c) Narco-analysis test
- (d) Voice sample

68. Article 22 of the Constitution of India does **not** provide for which one of the following?

- (a) The detention of a person detained under any preventive detention law has to be considered by an Advisory Board headed by a sitting judge of the High Court.
- (b) An arrested person has a right of legal representation.
- (c) An arrested person has right to know the grounds of his/her arrest.
- (d) A person cannot be detained in custody beyond twenty-four hours (excluding journey time) without the authority of a Magistrate.

69. Consider the following statements with respect to Article 32 and Article 226 of the Constitution of India :

1. Article 32 confers a right on the petitioner while Article 226 confers a discretion on the High Court.
2. Article 32 and Article 226 confer identical power on the Supreme Court and the High Courts to enforce the Fundamental Rights.
3. The power of superintendence of the Supreme Court over the High Courts is not similar to the powers of superintendence conferred on the High Courts over the courts subordinate to them.

Which of the above statements is/are **not** correct?

- (a) 1 and 3
- (b) 3 only
- (c) 2 only
- (d) 2 and 3

70. Which one of the following statements is **not** correct?

- (a) The Union Executive can exercise power on any subject included in the Union List of Seventh Schedule of the Constitution of India.
- (b) The Union Executive can exercise jurisdiction conferred on the Government of India by any international treaty.
- (c) The Union Executive can exercise power for any State on any subject included in the Concurrent List of Seventh Schedule of the Constitution of India.
- (d) The Union Executive can issue directions to the States for ensuring compliance with any law passed by the Parliament.

71. Which among the following institutions is **not** considered as 'Public Authority' under the RTI Act, 2005?

- (a) Established or constituted by or under the Constitution of India
- (b) Established by private entity not financed and controlled by the Government
- (c) Established or constituted by any law made by the Parliament
- (d) Established or constituted by any law made by a State Government

72. The 'National Monetization Pipeline' was launched to unlock value in brownfield projects. It aims to raise funds by leasing which one of the following types of assets?

- (a) Land and buildings
- (b) Gold reserves
- (c) Forests and wildlife sanctuaries
- (d) Agricultural fields

73. For the period of five years, for updating records, improving infrastructure, creating manuals and establishing the Public Records Offices, the Second Administrative Reform Commission, in its first report (June 2006), recommended that as one-time measure, the Government of India should

- (a) earmark 1% of the funds of all flagship programmes
- (b) earmark 1.5% of the funds of all flagship programmes
- (c) earmark 2% of the funds of all flagship programmes
- (d) earmark 2.5% of the funds of all flagship programmes

74. Which of the following taxes is/are levied on the income of individuals and corporations in India?

- 1. Goods and Services Tax
- 2. Corporate Tax
- 3. Income Tax
- 4. Wealth Tax

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2
- (c) 2, 3 and 4
- (d) 3 and 4 only

75. Consider the following statements with reference to the disposal of request under the RTI Act, 2005 :

- 1. As expeditiously as possible, in any case, within 30 days of the receipt of the request, provide the information on payment of such fee as may be prescribed.
- 2. As expeditiously as possible, in any case, within 30 days of the receipt of the request, reject the request for any of the reasons specified in Sections 8 and 9.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

76. Which one of the following is **not** correct pertaining to the exemption from disclosure of information?

- (a) Information which does not affect the sovereignty and integrity of India
- (b) Information which has been expressly forbidden to be published by the court of law or tribunal
- (c) Information which would cause a breach of privilege of the Parliament or the State Legislature
- (d) Information which received in confidence from a foreign government

77. Consider the following statements with respect to the 'third party information' under the RTI Act, 2005 :

1. The PIO can disclose the confidential information supplied by a third party without inviting the third party to make submission in the matter.
2. The third party has a right to make an appeal to the Department Appellate Authority against the decision of the PIO.
3. If not satisfied with the decision of the Department Appellate Authority, a second appeal can be made to the concerned Information Commission.
4. The PIO cannot disclose third party information unless the procedure prescribed in Section 11.

Which of the above statements are correct?

- (a) 1, 2 and 3
- (b) 2, 3 and 4
- (c) 1, 2 and 4
- (d) 1, 3 and 4

78. Who among the following is **not** in the committee to recommend for the appointment of the Chief Information Commissioner and Information Commissioner by the President of India?

- (a) The Prime Minister, who shall be the Chairperson of the committee
- (b) The Leader of Opposition in the Lok Sabha
- (c) A Union Cabinet Minister to be nominated by the Prime Minister
- (d) The Chief Justice of India

79. Consider the following statements with reference to the penalties under the RTI Act, 2005 :

1. As mentioned in Section 20(1), the Central Information Commission or the State Information Commission shall impose a penalty of two hundred and fifty rupees each day till application is received or information is furnished, however, the total amount of such penalty shall not exceed twenty-five thousands.
2. As the case may be, the Central Public Information Officer or the State Public Information Officer shall be given a reasonable opportunity of being heard before any penalty is imposed.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

- 80.** The RTI Week is celebrated every year during
- (a) 5th–12th September
 - (b) 5th–12th October
 - (c) 5th–12th November
 - (d) 5th–12th December
- 81.** What is the current status of India's economy in terms of market classification by the World Bank and the International Monetary Fund?
- (a) Low-income economy
 - (b) Middle-income economy
 - (c) High-income economy
 - (d) Upper-middle-income economy
- 82.** The ruins of which Indus Valley site in Gujarat was named as a World Heritage Site in 2021?
- (a) Babar Kot
 - (b) Bet Dwarka
 - (c) Dholavira
 - (d) Bhagatrav
- 83.** What is the common name for the Asiatic wild dog that was once found all over the continent?
- (a) Dhole
 - (b) Dachshund
 - (c) Beagle
 - (d) Mudhol Hound
- 84.** Who among the following Indian Film Directors adopted *Macbeth*, *Othello* and *Hamlet* into *Maqbool*, *Omkaara* and *Haider* respectively?
- (a) Yash Chopra
 - (b) Vishal Bhardwaj
 - (c) Rohit Shetty
 - (d) Sudhir Mishra
- 85.** Which one of the following international organizations provides financial assistance and technical expertise to developing countries, including India, to support various developmental projects?
- (a) The World Trade Organization
 - (b) The World Bank
 - (c) The International Monetary Fund
 - (d) The Asian Development Bank

86. The Banking Regulation (Amendment) Bill, 2020 was passed to provide regulatory powers to the Reserve Bank of India for overseeing the functioning of which financial institution?

1. Mutual funds
2. Insurance companies

Select the correct answer using the code given below.

- (a) Both 1 and 2
- (b) 1 only
- (c) 2 only
- (d) Neither 1 nor 2

87. A disease that is present permanently in a region or population is known as

- (a) pandemic
- (b) epidemic
- (c) endemic
- (d) zoonotic

88. The 'Insolvency and Bankruptcy Code' was introduced to facilitate the resolution of insolvency cases and to improve the ease of doing business in India. In which year was it enacted?

- (a) 2013
- (b) 2015
- (c) 2016
- (d) 2017

89. Consider the following statements :

The 'National Investment and Infrastructure Fund' was created to

1. promote Foreign Direct Investment in India
2. support infrastructure projects in the country
3. attract venture capital for startups
4. finance defence projects

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

90. India pledged at COP26 to reach net zero emission by 2070. What is the target percentage of renewable energy announced to be achieved by 2030?

- (a) 40%
- (b) 45%
- (c) 50%
- (d) 55%

91. Which among the following pairs pertaining to revolutions that changed the country is/are correctly matched?

1. Verghese Kurien : Father of the Indian White Revolution
2. Chidambaram Subramaniam : Father of the Indian Green Revolution
3. Neel Kranti Mission : Enhanced the or the Blue Revolution production of fish

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2
- (c) 1 and 3
- (d) 3 only

92. Which of the following statements is correct?

- (a) A person who is not qualified to be a member of the Parliament is not qualified to be the President.
- (b) Every person who is qualified to be a member of the Parliament is eligible to be elected as the President of India.
- (c) A person qualified to be a member of the House of the People is qualified to be the President.
- (d) A person qualified to be a member of the House of the People is qualified to be the President if he/she fulfils other prescribed requirements.

93. The Government of India, through Indian Strategic Petroleum Reserves Ltd. (ISPRL), has set up Strategic Petroleum Reserves (SPR). Which among the following are correct locations for these reserves?

1. Hyderabad
2. Visakhapatnam
3. Mangaluru
4. Padur

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 2, 3 and 4
- (d) 1 and 4

94. Consider the following statements :

A High Court requires prior approval of the Governor while making certain rules

1. settling tables of fee to advocates and pleaders practising before district courts
2. calling returns from district courts
3. which include rules for superintendence of the district courts

Which of the above statements is/are correct?

- (a) 1 only
- (b) 1 and 2
- (c) 2 only
- (d) 3

95. The jurisdiction of the courts has been ousted in which one of the following matters?

- (a) Any law dealing with delimitation of constituencies with regard to election to municipalities
- (b) Reservations made for various categories for elections in municipalities
- (c) Disqualification for membership of a Panchayat
- (d) Election of members of the board in a cooperative society

96. Consider the following statements :

1. The Constitution of India prescribes limits of territorial waters and maritime zones of India.
2. The resources of the exclusive zone of India vest in the Union of India.
3. The Constitution of India prescribes the limits of the exclusive economic zone of India.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 and 3
- (c) 1 and 3
- (d) 2 only

97. Consider the following statements :

The 'pleasure' doctrine with regard to service of the civil servants under the Constitution of India is

1. absolute
2. subject to Article 309
3. subject to Article 311

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 2
- (d) 3

98. Which among the following pairs of rivers and regions is/are **not** correctly matched?

1. Indus river : Himalayan region
2. Godavari river : Deccan region
3. Luni river : Coastal region

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

99. The provisions for setting up Inter-State Councils are mentioned in Article 263 of the Constitution of India. Which among the following is **not** the correct composition of member States in case of Eastern Zonal Council?

- (a) Bihar
- (b) Jharkhand
- (c) West Bengal
- (d) Chhattisgarh

- 100.** With regard to Goods and Services Tax in the course of inter-State trade or commerce, which one of the following statements is **not** correct?
- (a) It is levied by the Union.
- (b) It is levied and collected by the Union.
- (c) It is not apportioned between the Union and States.
- (d) Goods imported are treated to be supply of goods in the course of inter-State trade.
- 101.** The Speaker of the Lok Sabha can resign by addressing his/her resignation to
- (a) the President of India
- (b) the Prime Minister of India
- (c) the Deputy Speaker of the Lok Sabha
- (d) the Chief Justice of India
- 102.** What is the minimum quorum required for holding a sitting of the Rajya Sabha?
- (a) One-third of the total membership
- (b) One-half of the total membership
- (c) One-fourth of the total membership
- (d) One-tenth of the total membership
- 103.** Which motion is moved to express want of confidence in the Council of Ministers?
- (a) No-Confidence Motion
- (b) Confidence Motion
- (c) Censure Motion
- (d) Adjournment Motion
- 104.** Which of the following motions is used to adjourn the House to discuss a definite matter of urgent public importance?
- (a) Adjournment Motion
- (b) Calling Attention Motion
- (c) Privilege Motion
- (d) No-Confidence Motion
- 105.** Who can ask for a joint sitting of both the Lok Sabha and the Rajya Sabha to resolve a deadlock over a Bill?
- (a) The President of India
- (b) The Prime Minister of India
- (c) The Speaker of the Lok Sabha
- (d) The Chairman of the Rajya Sabha

106. A Bill that has been rejected by either House of the Parliament **cannot** be reintroduced during the same

- (a) session
- (b) calendar year
- (c) parliamentary year
- (d) budget session

107. Consider the following statements regarding Money Bill :

1. It can be introduced in either the Lok Sabha or the Rajya Sabha.
2. It can be returned by the President for reconsideration.
3. It requires the consent of the President before introduction.
4. It cannot be introduced in the Rajya Sabha.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 1, 2, 3 and 4
- (c) 2, 3 and 4 only
- (d) 3 and 4 only

108. How many readings does a non-Money Bill undergo in both the Lok Sabha and the Rajya Sabha?

- (a) One reading
- (b) Two readings
- (c) Three readings
- (d) Four readings

109. The term 'guillotine' is associated with

- (a) decision-making process in the Parliament
- (b) financial procedure in the Parliament
- (c) removal of a member from the Parliament
- (d) election of the Presiding Officer in the Parliament

110. The committee responsible for scrutinizing the Annual Budget of the Government is known as the

- (a) Committee on Public Accounts
- (b) Committee on Estimates
- (c) Committee on Subordinate Legislation
- (d) Committee on Rules

111. The term 'inflation' refers to the increase in

- (a) unemployment rate
- (b) prices of goods and services
- (c) foreign exchange reserves
- (d) interest rates

112. Consider the following statements :

The Reserve Bank of India is responsible for the issuance of

1. currency notes and coins
2. Government bonds
3. corporate bonds
4. stocks

Which of the above statements are correct?

- (a) 1, 2 and 4 only
- (b) 1, 2, 3 and 4
- (c) 3 and 4 only
- (d) 1, 2 and 3 only

113. Which term refers to the total value of all the goods and services produced within the country during a specific period?

- (a) GDP
- (b) GNP
- (c) GNI
- (d) GVA

114. The fiscal deficit is the difference between

- (a) total revenue and total expenditure
- (b) total imports and total exports
- (c) total investment and total savings
- (d) total debt and total assets

115. The index that measures the average change in the prices of goods and services consumed by urban households is called

- (a) Wholesale Price Index
- (b) Consumer Price Index
- (c) Producer Price Index
- (d) Sensex

116. Which of the following is the highest policy-making body for monetary matters in India?

- (a) The Securities and Exchange Board of India
- (b) The NITI Aayog
- (c) The Ministry of Finance
- (d) The Reserve Bank of India

117. Which Indian State launched the 'Amma Vodi' scheme to provide financial assistance to mothers for educating their children?

- (a) Karnataka
- (b) Andhra Pradesh
- (c) Kerala
- (d) Tamil Nadu

118. Consider the following statements :

The 'Atal Pension Yojana' focuses on providing pension benefits to

1. farmers
2. Government employees
3. industrial workers
4. unorganized sector workers

Which of the above statements is/are correct?

- (a) 4 only
- (b) 2
- (c) 1, 3 and 4
- (d) 1 and 4 only

119. The 'National Rural Livelihood Mission' is aimed at

- (a) promoting rural tourism
- (b) providing free healthcare to rural families
- (c) poverty reduction through self-employment and skill development
- (d) encouraging organic farming practices

120. The 'Pradhan Mantri Garib Kalyan Yojana' was launched to support

- (a) infrastructure development in rural areas
- (b) poverty eradication programmes
- (c) education for underprivileged children
- (d) economic empowerment of the poor during the COVID-19 pandemic

Examination:		SO. (GR-B/) LDCE-2019-2020													
Series: A		Subject PAPER-I													
Max. marks		150		No. of Items dropped:		03									
Items to be taken for scoring:				117											
1	C	16	D	31	C	46	D	61	C	76	A	91	C	106	A
2	D	17	X	32	C	47	C	62	C	77	B	92	D	107	D
3	D	18	B	33	C	48	C	63	A	78	D	93	C	108	C
4	B	19	B	34	C	49	C	64	B	79	B	94	B	109	B
5	A	20	A	35	D	50	C	65	C	80	B	95	A	110	B
6	B	21	B	36	D	51	C	66	D	81	X	96	D	111	B
7	C	22	C	37	C	52	A	67	C	82	C	97	D	112	X
8	D	23	B	38	A	53	D	68	A	83	A	98	C	113	A
9	C	24	B	39	B	54	D	69	B	84	B	99	D	114	A
10	A	25	C	40	A	55	D	70	C	85	B	100	C	115	B
11	D	26	B	41	B/D	56	A	71	B	86	A	101	C	116	D
12	C	27	B	42	B	57	B	72	A	87	C	102	D	117	B
13	A	28	B	43	B	58	C	73	A	88	C	103	A	118	D
14	A	29	C	44	B	59	D	74	C	89	B	104	A	119	C
15	D	30	D	45	C	60	B	75	C	90	C	105	A	120	D

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी.बी.सी. : CDLE-A-GAP

परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1000089

परीक्षण पुस्तिका

प्रश्न-पत्र—I



सामान्य अभिक्षमता परीक्षण

समय : दो घण्टे

पूर्णांक : 300

अ नु दे श

1. परीक्षा प्रारम्भ होने के तुरन्त बाद आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर और कुछ न लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए केवल एक ही प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. सभी प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर केवल उत्तर-पत्रक अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अन्त में संलग्न हैं।
10. गलत उत्तरों के लिए ऋणात्मक अंकन नहीं है।
11. इस परीक्षण पुस्तिका में तीन भाग हैं। भाग-A सामान्य अध्ययन के विषय में है और इसमें 60 प्रश्न हैं। भाग-B संख्यात्मक योग्यता और कंप्यूटर प्रवीणता के विषय में है और इसमें 30 प्रश्न हैं। भाग-C भारत का संविधान के विषय में है और इसमें 30 प्रश्न हैं। इन सभी 120 प्रश्नों के उत्तर दिए जाने हैं।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

PART—A
GENERAL STUDIES

1. Consider the following statements about Harappan Civilization :

1. It provides the earliest evidence of garlic.
2. Ornaments and precious metals have been discovered at different sites.
3. Exclusive use of burnt bricks is a unique feature.

Which of the statements given above is/are correct?

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 only
- (d) 3 only

2. Consider the following archaeological sites :

1. Burzahom
2. Sarai Khola
3. Kurnool
4. Attirampakkam

Which one of the following represents the locations of the above sites starting from north to south?

- (a) 2-1-4-3
- (b) 1-2-3-4
- (c) 1-3-2-4
- (d) 2-3-4-1

3. Consider the following statements about 'Dandi March' :

1. The march was widely covered by the European and American press.
2. It was the first nationalist activity in which women participated in large numbers.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

4. Who among the following Hellenic Kings is **not** mentioned in the records of King Ashoka?

- (a) Antiochus of Syria
- (b) Ptolemy II of Egypt
- (c) Antigonus of Macedonia
- (d) Alexander of Bactria

5. Who among the following Kings is said to have destroyed a confederacy of Tamil States in circa 155 BCE?

- (a) Bindusara
- (b) Karikala
- (c) Gautamiputra Satakarni
- (d) Kharavela

6. Which one of the following was launched as a campaign on March 22, 2021 with the theme "Catch the Rain—where it falls, when it falls" by the Ministry of Jal Shakti?
- (a) Jal Shakti Abhiyan
(b) Sahi Fasal Campaign
(c) Water Talk
(d) Pradhan Mantri Krishi Sinchayee Yojana
7. In the context of the Indus Water Treaty, 1960, water of which one of the following rivers was **not** allocated to India for its exclusive use?
- (a) Ravi
(b) Chenab
(c) Sutlej
(d) Beas
8. Which one of the following countries is **not** a founding member of the New Development Bank (NDB)?
- (a) India
(b) China
(c) Russia
(d) Bangladesh
9. Which one of the following international organizations considers its core responsibility as providing financial help to member countries which are experiencing balance of payments problems?
- (a) IFC
(b) IDA
(c) IMF
(d) IBRD
10. Who among the following was the Chairman of the Committee constituted by SEBI in April 2022 to review and make recommendations for further strengthening of governance norms at market infrastructure institutions?
- (a) G. Mahalingam
(b) Sandip Bhagat
(c) Uttam Bagri
(d) J. N. Gupta
11. The Headquarters of the Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) is located in
- (a) Colombo
(b) Bangkok
(c) New Delhi
(d) Dhaka

12. What is the name of the Indian community newspaper that is written, edited, produced, marketed and distributed by Indian women since early 2000s?

(a) *Kalantar*

(b) *Usha Kirana*

(c) *Uttara Mahila Patrika*

(d) *Khabar Lahariya*

13. Which of the following statements about the Arya Samaj is/are correct?

1. It did not support idol worship.
2. It was against hereditary transmission of caste.
3. It actively worked for the passage of the Hindu Widows' Remarriage Act, 1856.

Select the correct answer using the code given below.

(a) 2 only

(b) 1 and 2 only

(c) 1 and 3 only

(d) 1, 2 and 3

14. Which of the following statements about the Chipko Movement is/are correct?

1. It was opposed to the commercial felling of trees in hill areas.
2. It was a non-violent movement.
3. It supported construction of dams in hilly regions.

Select the correct answer using the code given below.

(a) 1 and 2 only

(b) 1, 2 and 3

(c) 2 and 3 only

(d) 1 only

15. Vaikom Movement was associated with which one of the following issues?

(a) Land rights of the peasants of Kerala

(b) Temple entry struggle in Kerala

(c) Rights of fishing community in Karnataka

(d) Genetically modified crop cultivation in Tamil Nadu

16. Which one among the following was initiated by Jyotiba Phule?

- (a) Satyashodhak Samaj
- (b) Jat-Pat Todak Mandal
- (c) Justice Party
- (d) Harijan Sevak Sangh

17. Consider the following statements with respect to earthquakes :

- 1. The point where energy is released is called hypocentre.
- 2. The point on the surface nearest to the focus is called epicentre.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

18. Which one of the following is **not** an erosional landform?

- (a) Esker
- (b) Pediment
- (c) Point bar
- (d) Stack

19. Which one of the following is **not** a factor that causes variations in 'insolation'?

- (a) Rotation of the Earth on its axis
- (b) Angle of inclination of the Sun's rays
- (c) Length of the day
- (d) Vegetation cover on the Earth's surface

20. Subduction zone with reference to plate tectonics is associated with which of the following plate boundaries?

- 1. Convergent boundaries
- 2. Divergent boundaries

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

21. What is the correct chronological sequence of the following 'periods' in the Earth's geological timescale?

- 1. Cambrian
- 2. Carboniferous
- 3. Cretaceous
- 4. Devonian

Select the correct answer using the code given below.

- (a) 1-4-2-3
- (b) 1-2-4-3
- (c) 1-2-3-4
- (d) 2-1-3-4

22. Who among the following Chola Kings conquered and annexed the Maldives?

- (a) Parantaka
- (b) Rajaraja
- (c) Rajendra
- (d) Gandaraditya

23. Who among the following constructed the Kailasanatha Temple at Kanchipuram?

- (a) Simhavishnu
- (b) Umadevi
- (c) Nandivarman
- (d) Narasimhavarman II Rajasimha

24. Who among the following is the author of the famous travel book *Rihla* ?

- (a) Al-Biruni
- (b) Ibn Battuta
- (c) Seydi Ali Reis
- (d) Mahmud Wali Balkhi

25. Who among the following Bhakti poetesses belonged to Kashmir Valley?

- (a) Rupa Bhawani
- (b) Akka Mahadevi
- (c) Janabai
- (d) Bahinabai

26. Which one of the following statements about Mahapurush Srimanta Sankardeva is **not** correct?

- (a) He was the leading proponent of Vaishnavism in Assam.
- (b) His teachings are known as 'Bhagavati Dharma'.
- (c) One of his major compositions is *Bhakti-Ratnakara*.
- (d) He rejected the traditional Bhakti form of Satsang, the Naam-Kirtan.

27. Which of the following statements about Aramaic language is/are correct?

1. Aramaic is a language related to Hebrew and Arabic.
2. Aramaic language has been used in Ashokan inscriptions.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

28. Which of the following statements about the National Stock Exchange (NSE) of India is/are correct?

- 1: It was set up in 1990.
2. It was recognized as a stock exchange by SEBI in 1993 and it commenced its operations in 1994.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

29. Insurance penetration is measured as

- (a) the ratio of insurance premium to population
- (b) the percentage of insurance premium to GDP
- (c) the percentage of insurance premium to per capita income
- (d) the ratio of insurance premium to market capitalization

30. According to the Budget Estimates of 2023–24, which one among the following sectors received the highest allocation of funds?

- (a) Railways
- (b) Rural Development
- (c) Education
- (d) Defence

31. Which of the following statements about revenue and primary deficit is/are correct?

1. Revenue deficit refers to the excess of revenue expenditure over revenue receipts.
2. Primary deficit is measured as fiscal deficit less interest payments.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

32. Which of the following pairs of tribal movements and their leaders are correctly matched?

1. Rampa Rebellion : Alluri Sitarama Raju
2. Naga Movement : Haipou Jadonang
3. Heraka Movement : Rani Gaidinliu
4. Santhal Rebellion : Sidhu Murmu and Kanhu Murmu

Select the correct answer using the code given below.

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 2, 3 and 4
- (d) 1 and 4 only

33. Who wrote the feminist text *Stree-Purush Tulana* ?

- (a) Pandita Ramabai
- (b) Rukhmabai
- (c) Rokeya Sakhawat Hossain
- (d) Tarabai Shinde

34. Which of the following statements about the Virasaiva Movement is/are correct?

1. Virasaiva followers are also known as Lingayats.
2. The Movement is closely associated with Basaveshwara.
3. The Movement became institutionalized over a period of time.

Select the correct answer using the code given below.

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 3 only

35. The provision for one-third representation for women in the local self-government has been introduced in the Constitution of India through

- (a) 42nd Amendment Act
- (b) 63rd Amendment Act
- (c) 73rd Amendment Act
- (d) 75th Amendment Act

36. Which one among the following is **not** a function of the National Commission for Women in India?

- (a) To investigate and to examine matters related to safeguards provided for women under the Constitution of India and laws
- (b) To fund litigation involving issues affecting a large body of women
- (c) To provide gainful employment to women especially from the weaker sections of the society
- (d) To participate and advise on the planning process of socio-economic development of women

37. Consider the following statements with respect to the 'asthenosphere' :

1. It extends from the lower crust to the upper mantle.
2. It is the main source of the magma that finds its way to the surface of the Earth during volcanic eruptions.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

38. Which one of the following is **not** a basic factor in soil formation?

- (a) Climate
- (b) Biological activity
- (c) Human activity (agriculture)
- (d) Time

39. Which one of the following is **not** a 'cold ocean current'?

- (a) Benguela Current
- (b) Canary Current
- (c) Falkland Current
- (d) Kuroshio Current

40. Consider the following statements with respect to 'tides' :

1. The tidal bulges on wide continental shelves have greater height.
2. When tides are channeled between islands, they are called tidal currents.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

41. Which one of the following is **not** a bottom relief of the Indian Ocean?

- (a) Chagos Ridge
- (b) Amsterdam-St. Paul Ridge
- (c) Somali Basin
- (d) Philippine Trench

42. Which one among the following is a Neolithic site?

- (a) Adichanallur
- (b) Hallur
- (c) Brahmagiri
- (d) Kurnool

43. Which one of the following statements about the Indian Association of 1876 is **not** correct?

- (a) It aimed at creating strong public opinion in the country on political questions and the unification of Indian people under a common political programme.
- (b) It did not charge any membership fee from the poorer people.
- (c) Branches were opened in the towns and villages of Bengal and in many towns outside Bengal.
- (d) It was led by Surendranath Banerjee and Ananda Mohan Bose.

44. The first session of the All India Hindu Mahasabha, founded at the initiative of Pandit Madan Mohan Malaviya and Lala Lajpat Rai, was held in

- (a) 1915
- (b) 1920
- (c) 1922
- (d) 1923

45. Which one of the following measures was **not** a consequence of the successful Champaran Satyagraha of 1917?

- (a) The Sharabeshi rent was reduced by 26 percent
- (b) The Abwabs were declared illegal
- (c) The Thekedari system was allowed to continue as it was
- (d) The Tawan, a fine on peasants, was abolished

46. Who among the following succeeded Lala Hardayal as the Secretary of the Ghadar Party?

- (a) Bhai Santokh Singh
- (b) Sohan Singh Bhakna
- (c) Ram Nath Puri
- (d) Taraknath Das

47. Which of the following relating to the formation of tropical cyclone is/are correct?

1. Large sea surface with temperature above 27 °C
2. Presence of Coriolis force
3. Upper convergence over the sea level system

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 1 and 3
- (c) 2 and 3
- (d) 3 only

48. What is the name given to a tropical cyclone in the Western Pacific?

- (a) Cyclone
- (b) Hurricane
- (c) Typhoon
- (d) Willy-Willy

49. Which of the following is **not** among the conditions ideal for inversion of temperature?

- (a) A long winter night
- (b) Clear skies
- (c) Still air
- (d) Low air pressure near the ground surface

50. Which one of the following is **not** among the areas classified as 'moderate drought-affected areas' in India?

- (a) Coimbatore Plateau
- (b) Northern part of Rajasthan
- (c) Southern districts of Uttar Pradesh
- (d) Konkan region of Maharashtra

51. The Tropic of Cancer does **not** pass through which of the following groups of States?

- (a) Gujarat, West Bengal, Nagaland
- (b) Rajasthan, Jharkhand, Mizoram
- (c) Gujarat, Chhattisgarh, Tripura
- (d) Madhya Pradesh, Jharkhand, Mizoram

52. Consider the following :

1. Sohagighat
2. Lakhajuar
3. Kathotia
4. Jaora

With reference to the above, which one of the following is correct?

- (a) All the above are Buddhist sites
- (b) All the above are rock art sites
- (c) All the above are names of tribes
- (d) All the above are ancient quarry sites

53. Who among the following took the lead in organizing the Women's Indian Association in 1917?

- (a) Margaret Cousins
- (b) Meherbai Tata
- (c) Fatima Sheikh
- (d) Sarojini Naidu

54. Who among the following was the first Indian ruler to accept the Subsidiary Alliance System of Wellesley?

- (a) Salabat Jung
- (b) Asaf Jah II
- (c) Tipu Sultan
- (d) Bajji Rao II

55. Arrange the following 'Mahajanapadas' in terms of their locations from south to north :

1. Chedi
2. Ashmaka
3. Panchala
4. Kamboja

Select the correct answer using the code given below.

- (a) 1-4-2-3
- (b) 4-2-3-1
- (c) 2-1-3-4
- (d) 4-3-1-2

56. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (River)	<i>List-II</i> (Tributary)
A. Indus	1. Seti
B. Ghaghra	2. Dhansiri
C. Brahmaputra	3. Bhavani
D. Kaveri	4. Nubra

Code :

(a) A B C D
3 1 2 4

(b) A B C D
4 1 2 3

(c) A B C D
3 2 1 4

(d) A B C D
4 2 1 3

57. Which one among the following statements for black soil is **not** correct?

- (a) It is also known as 'regur soil'.
- (b) It is generally clayey and impermeable.
- (c) It swells when wet and shrinks when dry.
- (d) It cannot retain water for long time.

58. Which one of the following National Parks is an example of protected waterfowl habitat under the Ramsar Convention?

- (a) Keoladeo National Park
- (b) Bandipur National Park
- (c) Dudhwa National Park
- (d) Jim Corbett National Park

59. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (Koppen's type of climate)	<i>List-II</i> (Area of occurrence)
A. Amw	1. Coromandel Coast
B. Cwg	2. West Coast of India
C. As	3. West Rajasthan
D. BWhw	4. Ganga Plain

Code :

(a) A B C D
3 4 1 2

(b) A B C D
3 1 4 2

(c) A B C D
2 4 1 3

(d) A B C D
2 1 4 3

60. Which one of the following is **not** the characteristic feature of 'El Niño' phenomenon impacting the Indian monsoon?

- (a) It replaces the cold Peruvian current
- (b) Appearance of cold current in East Pacific region
- (c) Results in reduction of planktons
- (d) Results in drought or weak monsoon in India

PART—C

CONSTITUTION OF INDIA

91. Match List-I with List-II and select the correct answer using the code given below the Lists :

List-I
(Provision of the
Constitution of India)

List-II
(Borrowed from)

- | | |
|---|---|
| A. First-past-the-post system | 1. Canadian Constitution |
| B. Charter of Fundamental Rights | 2. Irish Constitution |
| C. Residual Powers | 3. Constitution of the United States of America |
| D. Directive Principles of State Policy | 4. British Constitution |

Code :

(a) A B C D
4 3 1 2

(b) A B C D
4 1 3 2

(c) A B C D
2 1 3 4

(d) A B C D
2 3 1 4

92. Under which one of the following Articles of the Constitution of India is the right to property a constitutional right?

- (a) Article 41
(b) Article 300A
(c) Article 19
(d) Article 38

93. Who among the following served as the President of India for the shortest period of time?

- (a) Giani Zail Singh
(b) Pratibha Patil
(c) Sarvepalli Radhakrishnan
(d) Zakir Husain

94. When a Member of the Parliament desires an oral answer from a Ministry, which one of the following types of questions will be suitable?

- (a) Unstarred question
(b) Starred question
(c) Short notice question
(d) Question to a private member

95. Which one of the following statements about the Estimates Committee of the Parliament is **not** correct?

- (a) The term of office of the Committee is five years.
- (b) The Committee suggests alternative policies.
- (c) The Committee examines Money Bill.
- (d) The Committee suggests the form in which estimates shall be presented to the Parliament.

96. What is the term of office of the members of the Public Accounts Committee of the Parliament?

- (a) One year
- (b) Three years
- (c) Five years
- (d) Six years

97. The Supreme Court of India exercises advisory jurisdiction under which Article of the Constitution of India?

- (a) Article 141
- (b) Article 142
- (c) Article 143
- (d) Article 144

98. Which of the following statements about a State under the President's rule is/are correct?

- 1. The budget of a State under the President's rule is approved by the Governor of the State.
- 2. The procedure to pass the budget of a State under the President's rule is same as that of the budget of the Union Government.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

99. Which one of the following Indian States was admitted as an 'Associate State' to the Union of India in 1974?

- (a) Meghalaya
- (b) Manipur
- (c) Mizoram
- (d) Sikkim

100. The Sarkaria Commission, set up in 1983, is related to which one of the following?

- (a) Metropolitan planning
- (b) Centre-State relationship
- (c) Parliamentary committees
- (d) Reforms in bureaucracy

101. Which of the following statements about the Inter-State Council is/are correct?

1. It can inquire into disputes between States.
2. It cannot investigate subjects involving the Union.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

102. Which one of the following Constitutional Amendment Acts further extended the reservation of seats for SCs and STs in the Lok Sabha and the State Assemblies from seventy years to eighty years?

- (a) 93rd Amendment Act
- (b) 101st Amendment Act
- (c) 102nd Amendment Act
- (d) 104th Amendment Act

103. Which of the following statements is/are correct?

1. The President of India appoints the Attorney General of India and the Solicitor General of India.
2. Both the Attorney General of India and the Solicitor General of India are constitutional posts.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

104. Which of the following statements is/are correct?

1. Not all Union Territories have Legislative Assemblies.
2. Union Territory of Puducherry has a Legislative Assembly.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

105. Which one of the following is **not** a correct description of the nature of India's federalism?

- (a) India's federalism is based on the doctrine of 'Separation of Powers'
- (b) The Supreme Court of India is independently entitled to interpret the Constitution
- (c) There are different tiers of the Government and each tier has specified jurisdiction
- (d) Sources of revenue for each level of the Government are specified

106. The President of India may resign from his/her office by writing under his/her hand. To whom of the following is his/her resignation addressed to?

- (a) The Chief Justice of India
- (b) The senior most available Judge of the Supreme Court, in the absence of the Chief Justice of India
- (c) The Vice President of India
- (d) The Speaker of the Lok Sabha

107. The National Commission for Review of the Working of the Constitution (NCRWC) constituted in 2000 was chaired by

- (a) Justice M. N. Venkatachaliah
- (b) Justice Madhukar H. Kania
- (c) Justice J. S. Verma
- (d) Justice K. G. Balakrishnan

108. Which of the following statements about the Mountbatten Plan is/are correct?

1. The elections to the Constituent Assembly were held in 1946 under the Mountbatten Plan.
2. The Muslim League's demand for a separate Constituent Assembly was conceded in the Mountbatten Plan.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

109. Which one of the following statements is **not** correct?

- (a) As per the Constitution of India, the Union Council of Ministers is collectively responsible to the Parliament.
- (b) Residual Powers are vested in the Parliament.
- (c) The President of India is the Constitutional Head of the Executive of the Union.
- (d) As per the Constitution of India, there is provision for independence of the Comptroller and Auditor General of India.

110. The Governor of a State may tender his/her resignation to

- (a) the President of India
- (b) the Union Home Minister
- (c) the Speaker of the Legislative Assembly
- (d) the Advocate General of the State

111. Which among the following is **not** a function of the Parliament of India?

- (a) Making laws
- (b) Controlling the executives
- (c) Appointing Judges to the Supreme Court
- (d) Controlling taxation

112. The changes made by the 42nd Constitution Amendment Act of 1976 in the Fundamental Duties under the Constitution of India were based on the recommendations of which one among the following Committees?

- (a) Swaran Singh Committee
- (b) Rajamannar Committee
- (c) Indrajit Gupta Committee
- (d) G. V. K. Rao Committee

113. The Montagu-Chelmsford Reforms led to the enactment of which one among the following landmark Acts?

- (a) The Indian Councils Act, 1909
- (b) The Government of India Act, 1919
- (c) The Government of India Act, 1935
- (d) The Indian Councils Act, 1892

114. Barring exceptions, no law providing for preventive detention shall authorize the detention of a person for a period longer than

- (a) one month
- (b) two months
- (c) three months
- (d) two weeks

115. Which among the following systems of representation is adopted for the election of members to the Lok Sabha?

- (a) Party-list proportional representation
- (b) Instant-runoff system
- (c) First-past-the-post system
- (d) Binomial system

116. Which of the following statements is/are correct?

1. Under Article 14 of the Constitution of India, the State is bound to impart equal treatment to dissimilarly situated persons.
2. The State can justify an unequal treatment between two similarly situated persons, if there is such a precedence of unequal treatment.

Select the correct answer using the code given below.

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

117. Which of the following statements is/are correct?

1. The Parliament of India consists of the President of India, the Lok Sabha and the Rajya Sabha.
2. The Rajya Sabha was constituted for the first time in 1950.

Select the correct answer using the code given below.

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

118. Which of the following statements is/are correct?

1. The National Commission for Women is a constitutional body.
2. The National Commission for Backward Classes is not a constitutional body.

Select the correct answer using the code given below.

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

119. Which one among the following Lok Sabhas had the shortest span?

- (a) 2nd Lok Sabha
(b) 5th Lok Sabha
(c) 9th Lok Sabha
(d) 12th Lok Sabha

120. Which one among the following States has the largest number of Rajya Sabha seats?

- (a) Andhra Pradesh
(b) Madhya Pradesh
(c) Rajasthan
(d) West Bengal

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी. बी. सी. : JNUP-B-GKL



परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1156709

परीक्षण पुस्तिका

सामान्य ज्ञान



समय : दो घण्टे

पूर्णांक : 100

अनुदेश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को, ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. **सभी** प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक परीक्षण पुस्तिका के अंत में संलग्न हैं।
10. ग़लत उत्तरों के लिए दंड :
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए ग़लत उत्तरों के लिए दंड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक ग़लत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का **एक-तिहाई** दंड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे **ग़लत उत्तर** माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दंड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

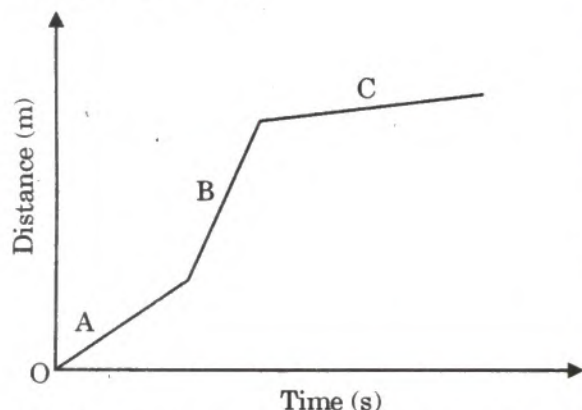
1. A person can see near objects clearly through his eyes but **cannot** see distant objects clearly. The possible reason(s) for this defect could be :

1. Excessive curvature of the eye lens.
2. The eye-ball has become too small.
3. The focal length of the eye lens is too large.
4. Elongation of the eye-ball.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 and 4 only
- (c) 1 and 4 only
- (d) 1 and 3 only

2. Consider a journey by a car represented by the graph given below in three parts A, B and C. The speed of the car in these parts is v_a , v_b and v_c , respectively :



Which one of the following is correct in this case ?

- (a) $v_a < v_b < v_c$
- (b) $v_b > v_a > v_c$
- (c) $v_a = v_b = v_c$
- (d) $v_a > v_b ; v_a > v_c$

3. A concave mirror of radius of curvature 50 cm is used to form an image of an object kept at a distance of 25 cm from the mirror on its principal axis. What will be the position of the image from the mirror ?

- (a) At infinity
- (b) At 50 cm
- (c) At 25 cm
- (d) At 75 cm

4. If the Moon is brought closer to the Earth such that its distance from the Earth becomes half of the original distance, then the gravitational force of attraction between the Earth and the Moon would :

- (a) reduce to half of its original value.
- (b) increase to two times of its original value.
- (c) remain the same as the original value.
- (d) increase to four times of its original value.

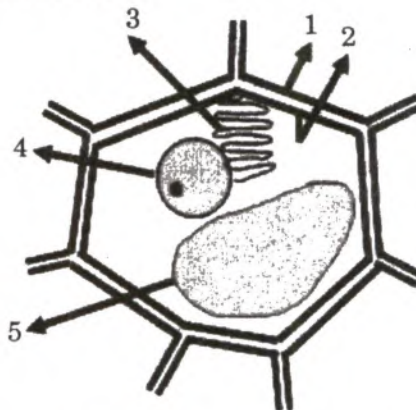
5. Sonic boom is produced when a source of sound travels at a speed :

- (a) greater than the speed of sound.
- (b) greater than the speed of light.
- (c) lesser than the speed of sound.
- (d) equal to the speed of sound.

6. Which one among the following are the correct symbols for the elements gold, tin and lead, respectively ?

- (a) Ga, Sb, Pb
- (b) At, Sn, Le
- (c) Au, Sn, Pb
- (d) Au, Sb, Pb

7. How much percentage of carbon dioxide is present in the atmosphere of Venus and Mars ?
- 45 – 47%
 - 52 – 55%
 - 74 – 77%
 - 95 – 97%
8. Which among the following methods is used to separate the constituents present in a compound ?
- Electrochemical method
 - Heating method
 - Fractional distillation
 - Decomposition followed by ion exchange
9. During white-washing of walls, slaked lime reacts slowly with carbon dioxide in air to form a thin layer of calcium carbonate on the walls. Which of the following reactions represents this correctly ?
- $\text{CaO (s)} + \text{CO}_2 \text{(g)} \rightarrow \text{CaCO}_3 \text{(s)}$
 - $\text{CaO (l)} + \text{CO}_2 \text{(g)} \rightarrow \text{CaCO}_3 \text{(s)}$
 - $\text{Ca(OH)}_2 \text{(l)} + \text{CO}_2 \text{(l)} \rightarrow \text{CaCO}_3 \text{(s)} + \text{H}_2\text{O (l)}$
 - $\text{Ca(OH)}_2 \text{(aq)} + \text{CO}_2 \text{(g)} \rightarrow \text{CaCO}_3 \text{(s)} + \text{H}_2\text{O (l)}$
10. Which one of the following equations is the balanced chemical equation for the given reaction ?
- $$\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$$
- $\text{Fe} + 4\text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$
 - $3\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + 2\text{H}_2$
 - $3\text{Fe} + 4\text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$
 - $3\text{Fe} + 4\text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$
11. The term Phyllotaxy refers to the pattern of :
- arrangement of leaves.
 - branching in stem.
 - flower formation on branch.
 - arrangement of flowers.
12. Chromosomes are composed of DNA and :
- lipids
 - vitamins
 - proteins
 - carbohydrates
13. Bacteria have an undefined nuclear region which lacks a nuclear membrane and contains only DNA without proteins. Such a region is called :
- Nucleosome
 - Nucleus
 - Nucleoprotein
 - Nucleoid
14. In the following simplified diagram of a plant cell, five parts/organelles are marked from 1 to 5 :



Which one of the following correctly represents the above parts/organelles ?

- 1 – cell membrane; 2 – cell wall; 3 – vacuole; 4 – endoplasmic reticulum; 5 – nucleus
- 1 – cell wall; 2 – cell membrane; 3 – endoplasmic reticulum; 4 – vacuole; 5 – nucleus
- 1 – cell wall; 2 – cell membrane; 3 – endoplasmic reticulum; 4 – nucleus; 5 – vacuole
- 1 – cell wall; 2 – cell membrane; 3 – vacuole; 4 – endoplasmic reticulum; 5 – nucleus

15. Which one of the following is the language of the famous political treatise *Amuktamalyada* ?

- (a) Sanskrit
- (b) Tamil
- (c) Kannada
- (d) Telugu

16. Which one of the following statements about the Shvetambara Sect of Jainism is **not** correct ?

- (a) It refers to monks, who wear white clothes.
- (b) It refers to monks, who migrated to the south of Vindhyas in 4th century BCE.
- (c) They recognized the existence of canonical texts including the 12 Angas.
- (d) They believed that women can also attain salvation.

17. Where is the Vikramkhoh Cave located ?

- (a) Odisha
- (b) Bihar
- (c) Telangana
- (d) West Bengal

18. Consider the following statements regarding the 'Levallois Technique':

- 1. It refers to making perforated Harappa pottery.
- 2. It refers to making prehistoric flake tools.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

19. Which of the following statements is/are correct ?

- 1. The Bakshali Manuscript written in the Gatha language (a refined version of old Prakrit) using the Sharada script deals with topics such as fractions, square roots, arithmetic and geometric progressions.
- 2. In the field of geometry, Aryabhata described the various properties of a circle giving a very accurate value for pi (π) correct to four decimal places at 3.1416.
- 3. Sharangadhara Samhita is an important text on political system of ancient India.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1 and 3 only
- (c) 1 and 2 only
- (d) 2 only

20. Which one of the following is **not** correct about the Indian Independence Act, 1947 ?

- (a) The Bill for the Indian Independence Act was introduced in Parliament on July 4 and received the Royal Assent on July 18, 1947.
- (b) Act of 1947 laid down the basic framework of the Indian Constitution.
- (c) The Act provided for the establishment of two independent Dominions to be known as India and Pakistan.
- (d) The Act empowered the Constituent Assembly of each Dominion to have unlimited power to frame and adopt any constitution.

21. As per the Cabinet Resolution of 1st January, 2015, the NITI Aayog consists of :
1. Prime Minister of India
 2. Governing Council comprising of Chief Minister of all the States and Lieutenant Governors of Union Territories
 3. Rural Development Minister
 4. Chief Executive Officer to be appointed by the Prime Minister
- Select the correct answer using the code given below :
- (a) 1, 2 and 3
 - (b) 1, 2 and 4
 - (c) 1 and 2 only
 - (d) 3 and 4 only
22. The executive is given an advance grant to meet temporary and running requirements of Government of India in the beginning of the new financial year until the demands are voted by the legislature. This is known as :
- (a) Vote of Credit
 - (b) Vote on Account
 - (c) Appropriation Bill
 - (d) Advance Account
23. Which of the following is/are United Nations Sustainable Development Goal(s) ?
1. Decent work and economic growth
 2. Peace, justice and strong institutions
 3. Responsible consumption and production
- Select the correct answer using the code given below :
- (a) 1 and 2 only
 - (b) 1, 2 and 3
 - (c) 2 only
 - (d) 1 and 3 only
24. Consider the following statements on 'Fog' :
1. Fog is simply a cloud that forms close to the ground.
 2. Radiation fog is associated with radiation cooling of the land at night.
 3. Advection fog forms when moisture is blown over a cold surface and is chilled by contact.
- Which of the statements given above are correct ?
- (a) 1 and 2 only
 - (b) 2 and 3 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3
25. Which one of the following landforms is/are formed by wind erosion ?
- (a) Cirque
 - (b) Stack
 - (c) Zeugen
 - (d) Stack and Zeugen both
26. Which one of the following crops is *not* cultivated under dryland farming ?
- (a) Jowar
 - (b) Ragi
 - (c) Sugarcane
 - (d) Groundnut
27. Which one of the following forms of settlement develops around a lake ?
- (a) Linear
 - (b) Cross-shaped
 - (c) Circular
 - (d) Square

28. How can resources be classified on the basis of their origin ?

- (a) Biotic and abiotic
- (b) Renewable and non-renewable
- (c) Individual and community
- (d) Potential and reserve

29. Which one among the following is the highest mountain in Africa ?

- (a) Atlas Mountain
- (b) Mount Kilimanjaro
- (c) Mount Kenya
- (d) Mount Elgon

30. Which of the following action(s) by the Government would lead to contraction of money supply in the economy ?

- 1. Purchase of Treasury Bills by the central bank from public
- 2. Sale of Treasury Bills by the central bank to public
- 3. Sale of foreign exchange by the central bank
- 4. Purchase of foreign exchange by the central bank

Select the correct answer using the code given below :

- (a) 1 and 4 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 2 only

31. Which of the following are included in the definition of Narrow Money ?

- 1. Currency with the public
- 2. Demand deposits
- 3. 'Other' deposits with Reserve Bank of India
- 4. Banker's deposits with Reserve Bank of India

Select the correct answer using the code given below :

- (a) 1, 2 and 4
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) 3 and 4 only

32. Which of the following is/are the effects of devaluation or depreciation of currency ?

- 1. It leads to increase in imports and decrease in exports.
- 2. It leads to increase in exports and decrease in imports.
- 3. It leads to increase in domestic inflation.
- 4. It leads to decrease in domestic inflation.

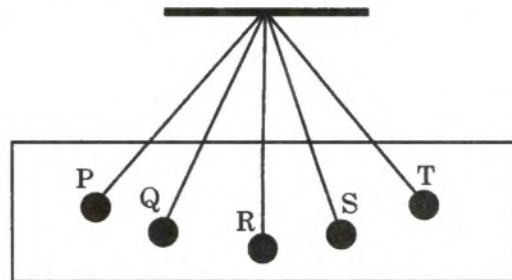
Select the correct answer using the code given below :

- (a) 1 and 3 only
- (b) 1 and 4 only
- (c) 2 and 3 only
- (d) 3 only

33. Which one of the following taxes is *not* subsumed under the Goods and Services Tax in India ?

- (a) Customs Duties
- (b) Central Excise Duties
- (c) Service Tax
- (d) Taxes on Petroleum and Petroleum Products

34. The following diagram shows a pendulum at different positions. Which one of the following statement is true ?



- (a) The pendulum has minimum potential energy at positions P and T.
- (b) The pendulum has minimum potential energy at positions Q and S.
- (c) The pendulum has minimum potential energy at position R.
- (d) The pendulum has same potential energy at all positions.

35. In which of the following media is the speed of sound the maximum ?
- Glass
 - Stainless steel
 - Water
 - Oxygen
36. A charged particle moves through a magnetic field **B** with a velocity **v**. Which one of the following statements is true for the force (**F**) experienced by the particle ?
- F** is maximum when **v** and **B** are parallel to each other.
 - F** is maximum when **v** and **B** are anti-parallel to each other.
 - F** is maximum when **v** and **B** are perpendicular to each other.
 - The force **F** is independent of the angle between **v** and **B**.
37. Which one of the following is the correct relation between Celsius and Fahrenheit temperature scales ?
(Symbols carry their usual meanings)
- $T_F = \frac{10}{3} T_C + 32$
 - $T_F = \frac{5}{9} T_C + 36$
 - $T_F = \frac{9}{5} T_C + 36$
 - $T_F = \frac{9}{5} T_C + 32$
38. Which one of the following statements is correct regarding the travel of a light beam from a rare to a dense medium ?
- A light beam travelling from a rare medium to a dense medium slows down and bends towards the normal.
 - A light beam travelling from a rare medium to a dense medium speeds up and bends towards the normal.
 - A light beam travelling from a rare medium to a dense medium slows down and bends away from the normal.
 - A light beam travelling from a rare medium to a dense medium speeds up and bends away from the normal.
39. In which one of the following cases do both physical and chemical changes take place ?
- Burning of candle
 - Freezing of water
 - Cooking of food
 - Rusting of iron
40. Which one of the following statements is correct about diamond and graphite ?
- Diamond and graphite have similar physical and chemical properties.
 - Diamond is hard but graphite is smooth and slippery.
 - Diamond and graphite are both non-conductors of electricity.
 - Both diamond and graphite have similar structures.

41. Which one among the following substances is a compound ?
- Sugar
 - Air
 - Milk
 - Tea
42. What is the total number of naturally occurring elements ?
- 114
 - 94
 - 86
 - 82
43. Which one of the following statements regarding acids is **not** correct ?
- Hydrochloric acid is present in the gastric juice secreted by the stomach.
 - Acetic acid is the main constituent of vinegar.
 - Oxalic acid is found in tamarind paste.
 - Lemon and orange juices contain citric acid and ascorbic acid respectively.
44. Which one of the following is the correct combination of organelles and their functions ?
- Mitochondria – Respiration; Chloroplast – Photosynthesis; Ribosome – Protein Synthesis; Rough endoplasmic reticulum – Transport of proteins
 - Mitochondria – Respiration; Chloroplast – Photosynthesis; Ribosome – Transport of proteins; Rough endoplasmic reticulum – Protein synthesis
 - Mitochondria – Respiration; Chloroplast – Protein synthesis; Ribosome – Photosynthesis; Rough endoplasmic reticulum – Transport of proteins
 - Mitochondria – Photosynthesis; Chloroplast – Respiration; Ribosome – Protein synthesis; Rough endoplasmic reticulum – Transport of proteins
45. Cell wall is absent in which one of the following organisms ?
- Bacteria
 - Diatom
 - Mushroom
 - Tapeworm
46. Water goes up through xylem vessels in tall trees. The process in plants and properties of water that help in upward movement are :
- Respiration and cohesion
 - Transpiration pull, cohesion and adhesion
 - Root pressure, cohesion and adhesion
 - Transpiration and adhesion
47. Energy and nutrients flow from one trophic level to another in an ecosystem. Which one of the following statements correctly describes the direction of flow of energy and nutrients in an ecosystem ?
- Energy flow is cyclic and nutrient flow is unidirectional.
 - Energy flow is unidirectional and nutrient flow is cyclic.
 - Both energy and nutrient flow are unidirectional.
 - Both energy and nutrient flow are cyclic.
48. Which one of the following is a saprophyte ?
- Cuscuta*
 - Rhizopus*
 - Spirogyra*
 - Grass

49. In ovules of Angiosperms, which one of the following is **not** a haploid cell ?
- Nucellus
 - Synergid
 - Egg
 - Antipodal
50. Arrange the following events associated with Shivaji in chronological order :
- Attack on Afzal Khan
 - Capture of Torna
 - Attack on Shaista Khan
 - Annexation of Javli
- Select the correct answer using the code given below :
- 2, 4, 1, 3
 - 4, 2, 1, 3
 - 1, 2, 3, 4
 - 3, 1, 2, 4
51. Who among the following is the author of the book 'The Indian Struggle 1920 - 1942' ?
- Vinayak Damodar Savarkar
 - Subhas Chandra Bose
 - Vallabhbhai Patel
 - Sarat Chandra Bose
52. Who among the following is **not** a woman Nayanar saint ?
- Karaikkal Ammai
 - Mangayarkkarasiyar
 - Andal
 - Isaignaniyar
53. Which one of the following pairs of terms and their meanings is **not** correctly matched ?
- Nagarakkani : Land owned by the nagaram
 - Nattar : Male serpent deity
 - Yupa : Sacrificial post
 - Viragal : 'Hero stone' in the Tamil Nadu area
54. Where is the famous Gupta period Deogarh Temple situated ?
- Uttar Pradesh
 - Madhya Pradesh
 - Chhattisgarh
 - Rajasthan
55. Consider the following statements with reference to the Nataraj bronze sculpture of Chola period :
- Shiva is shown balancing himself on his right leg representing *tirobhava*.
 - Shiva is shown raising his left leg in *bhujangatrasita* stance, representing kicking away the illusion from the devotee's mind.
 - The main right hand holds the *damaru*, Shiva's favourite musical instrument.
- Which of the statements given above is/are correct ?
- 1 only
 - 2 only
 - 2 and 3 only
 - 1, 2 and 3

56. Which of the following statements about ASEAN are correct ?

1. The Chairmanship of ASEAN rotates annually based on the alphabetical order of the English names of Member States.
2. The Chairmanship is decided by voting among the Member States.
3. "One Vision, One Identity, One Community" is the ASEAN motto.
4. 12th August is celebrated as ASEAN Day.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

57. Consider the following statements about the Public Distribution System :

1. The Public Distribution System is operated under the joint responsibility of Centre and State/Union Territories.
2. Food Corporation of India has assumed the responsibility for procurement, storage and transportation of food grains to the State Governments.
3. Both Centre and State have the joint responsibility to identify eligible beneficiaries.
4. Some States also distribute additional items of mass consumption through the PDS outlets such as pulses, edible oil, etc.

Which of the statements given above are correct ?

- (a) 2 and 3 only
- (b) 1, 2 and 4
- (c) 1 and 2 only
- (d) 3 and 4 only

58. Which of the following concepts are considered as pillars of Human Development ?

1. Equity
2. Sustainability
3. Productivity
4. Security

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

59. Which one of the following pairs of events and years is **not** correctly matched ?

- (a) Launch of the first communications satellite : 1962
- (b) Completion of a continuous around the world fibre-optic cable link : 1997
- (c) Creation of the SWIFT system for worldwide electronic interbank fund transfer : 1977
- (d) Introduction of the World Wide Web (www) : 1995

60. Identify the type of soil on the basis of given characteristics :

1. They contain a large proportion of sodium, potassium and magnesium, and thus, they are infertile.
 2. Their structure ranges from sandy to loamy.
 3. They are more widespread in western Gujarat, deltas of the eastern coast and in Sunderban areas of West Bengal.
- (a) Peaty soil
 - (b) Laterite soil
 - (c) Arid soil
 - (d) Saline soil

61. Which one among the following State capitals is closest to the Equator ?

- (a) Hyderabad
- (b) Bhubaneswar
- (c) Panaji
- (d) Mumbai

62. Which is the only country in the world to officially proclaim the Gross National Happiness (GNH) as the measure of the country's progress ?

- (a) Finland
- (b) Bhutan
- (c) Nepal
- (d) Switzerland

63. Consider the following statements about clouds :

1. Two major forms of clouds are stratiform and cumuliform.
2. According to the altitude, clouds are classified as high clouds, middle clouds and low clouds.
3. Stratus, nimbostratus and stratocumulus are types of high clouds.
4. Clouds having nimbo attached to their name produce precipitation.

Which of the statements given above are correct ?

- (a) 1 and 2 only
- (b) 1, 2 and 4
- (c) 2 and 4 only
- (d) 1, 3 and 4

64. Which one of the following expenditures is subtracted from Fiscal Deficit to arrive at Primary Deficit ?

- (a) Defence expenditure
- (b) Expenditure on subsidies
- (c) Interest payments
- (d) Pension

65. The Wholesale Price Inflation has increased in India during 2021 – 2022 due to which of the following factors ?

1. Sharp increase in international prices of crude oil
2. Decrease in economic activity post-Covid
3. Disruption of global supply chain
4. High freight cost

Select the correct answer using the code given below :

- (a) 2 and 3 only
- (b) 1, 3 and 4
- (c) 1 and 2 only
- (d) 1 and 4 only

66. What would be the impact on the economy if people start holding more currency in hand and less in deposits ?

- (a) Money demand will increase
- (b) Money multiplier will decrease
- (c) Money multiplier will increase
- (d) Money demand will decrease

67. SDG India Index, developed by NITI Aayog, includes 17 SDGs for each State. Which one of the following is **not** included in that index ?

- (a) Zero hunger
- (b) Reduced unemployment
- (c) Life below water
- (d) Responsible consumption and production

68. Other things remaining constant, the market supply for a good increases if :

- 1. its price increases.
- 2. price of its factors of production decreases.
- 3. price of other goods decreases.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

69. Consider the following statements regarding poverty in India :

- 1. While determining poverty line in India, a minimum level of food requirement, clothing, footwear, fuel and light, educational and medical requirements, etc. are determined for subsistence.
- 2. The accepted average calorie requirement in India is 2400 calories per person per day in rural areas and 2100 calories per person per day in urban areas.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

70. Which of the following statements is/are correct ?

- 1. Shivaji sent an ambassador to Bombay to negotiate an agreement with the English.
- 2. His chief motive was to secure English aid against the Siddis of Danda-Rajpuri.
- 3. He wanted a supply of grenades, mortars and other ammunition.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

71. The famous Hathigumpha inscription of Kharavela mentions that in the eleventh year of his reign, Kharavela destroyed a confederacy of Tamil States, "Tramiradesa Sanghatam", which had long been a source of danger. How old was this confederacy of Tamil States at that time ?

- (a) 110 years old
- (b) 111 years old
- (c) 112 years old
- (d) 113 years old

72. Which of the following statements about the Vaishnava saint of Assam, Shankardeva, is/are correct ?

- 1. His teachings are often known as the Bhagavati dharma.
- 2. He encouraged the establishment of satras or monasteries and namghars or prayer halls for the transmission of spiritual knowledge.
- 3. His major compositions include the Kirtana-ghosha.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 3 only

73. Abdur Razzaq, an ambassador of the ruler of Persia, was sent to Calicut in the fifteenth century. He was greatly impressed by the :

- (a) Fortifications of Calicut
- (b) Climatic conditions of the coastal town
- (c) High quality spices of the place
- (d) Musical traditions of the place

74. Which of the following statements about the 'Race to Zero Campaign' is/are correct ?

- 1. One of the main objectives of the Race to Zero Campaign is to build momentum around the shift to a decarbonized economy.
- 2. It is related to the theory of Zero-Sum Game.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

75. Which of the following statements about National Action Plan on Climate Change (NAPCC) with reference to India is/are correct ?

- 1. It emphasises that maintaining a high growth rate is essential for raising the living standards of the vast majority of the people of India and reducing their vulnerability to the impact of climate change.
- 2. It was released in 2014.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

76. What does India's "Blue growth" refer to ?

- (a) Upgradation of Indian Air Force
- (b) Discouraging farmers from using pesticides
- (c) A long-term strategy to support sustainable growth in the marine and maritime sectors
- (d) Socio-economic empowerment of India's blue collar workers in the unorganized sector

77. Which of the following statements about 'Operation Sadbhavana' in Ladakh is/are correct ?

- 1. Indian Army undertakes welfare activities, such as running of Army Goodwill Schools in remote areas of Ladakh.
- 2. It aims at building harmonious relationships between religious communities in Ladakh.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

78. Which one of the following is **not** a permanent member of the UN Security Council ?
- France
 - China
 - Japan
 - United Kingdom

79. Consider the following statements about some planets in the solar system :

- Mercury has no atmosphere.
- Venus has two moons.
- There is no land on Jupiter.
- Rings of Saturn are composed of lumps of ice and dust.

Which of the statements given above are correct ?

- 1 and 2 only
- 3 and 4 only
- 1, 2 and 3
- 1, 3 and 4

80. Which one of the following passes is **not** located in Indian Himalayan region ?

- Zojila
- Bolan
- Shipkila
- Lipulekh

81. Which one of the following set of trees does **not** belong to Temperate Floral Zone of Himalaya ?

- Cashewnut and Magnolia
- Oak and Maple
- Rhododendrons
- Birch and Laurels

82. Which one of the following statements about plantation agriculture is **not** correct ?

- Plantation farm estates are scientifically managed.
- Plantation farming requires heavy capital outlay.
- Plantation farm lands have mainly foreign ownership and local labour.
- Plantation farmers rear the animals for sale.

83. Match List I with List II and select the correct answer using the code given below the Lists :

<i>List I</i> (Name of Shifting Cultivation)	<i>List II</i> (Country)
--	-----------------------------

- | | |
|------------|--------------|
| A. Roca | 1. Sri Lanka |
| B. Chena | 2. Thailand |
| C. Masole | 3. Brazil |
| D. Tamarai | 4. Zaire |

Code :

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 2 | 4 | 1 | 3 |
| (b) | 2 | 1 | 4 | 3 |
| (c) | 3 | 4 | 1 | 2 |
| (d) | 3 | 1 | 4 | 2 |

84. Consider the following statements with reference to Paleolithic tools :

1. Isampur was a well-known center of stone tool manufacture located in Gulbarga district of Karnataka and was situated along a small seasonal stream known as Kamta Halla.
2. A Paleolithic blade is a flake tool, the length of which is more than twice its width.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

85. Consider the following statements about science in medieval South India :

1. The Katapayadi system of numerals, which was invented by Vararuchi of Kerala, the author of Chandra Vakya, was used for calculating the position of Moon on any day of the year.
2. Achyuta Pisharati (1550 – 1621) wrote *Uparagakriyakrama*, a text on eclipses.
3. Ravi Varma of Mahodayapuram set up an observatory and is also said to have inaugurated the Kollam era.

Which of the statements given above is/are correct ?

- (a) 1 and 3 only
- (b) 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

86. Which of the following dynasties of South India issued their documents first in Prakrit and later in Sanskrit ?

- (a) The Cholas of Tamil Nadu
- (b) The Pandyas of the post-Sangam Age
- (c) The Pallavas of Tondaimandalam
- (d) The Gangas of Kalinganagara

87. Who was the author of the Gwalior Prashasti of Mihira Bhoja ?

- (a) Nagabhata
- (b) Vatsaraja
- (c) Baladitya
- (d) Kakkuka

88. The Sahajiya Cult, which can be traced back to 10th and 11th centuries, is usually associated with :

- (a) early Bhakti traditions
- (b) a kind of early Sufism
- (c) early Upanishadic philosophy
- (d) Buddhism

89. The landmark Supreme Court judgment in the case *Subhash Sharma v. Union of India* (1991) refers to which one of the following basic features of the Constitution of India ?

- (a) Judicial Review
- (b) Rule of Law
- (c) Free and fair elections
- (d) Fundamental Rights

90. Which of the following statements about the Panchayats in India, as per the Constitution of India is/are correct ?

1. There is a provision for reservation of seats for the Scheduled Castes and Scheduled Tribes.
2. Panchayats are not authorised to collect taxes.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

91. Which one of the following statements about Mission Indradhanush, launched by the Government of India in 2014, is correct ?

- (a) It relates to provisions for Child Health Screening and Early Intervention Services.
- (b) It meets the diverse health needs of adolescents.
- (c) It aims to increase the full immunisation coverage for children.
- (d) Its objective is to achieve universal access to equitable, affordable, and quality healthcare services.

92. Which one of the following amendments to the Constitution of India has introduced reservations in education and in public employment for people from the Economically Weaker Sections (EWS) of society ?

- (a) The Constitution (101st Amendment) Act
- (b) The Constitution (102nd Amendment) Act
- (c) The Constitution (122nd Amendment) Act
- (d) The Constitution (103rd Amendment) Act

93. Which among the following Fundamental Rights is **not** suspended when an Emergency is declared ?

- (a) Protection in respect of conviction for offences
- (b) Right to constitutional remedies
- (c) Right to move freely throughout the territory of India
- (d) Equality before law

94. Any question pertaining to the disqualification of a member of the Lok Sabha on the ground of defection is decided by :

- (a) The President of India
- (b) The Speaker of the Lok Sabha
- (c) The Supreme Court of India
- (d) The concerned Political Party

95. Which one of the following statements about Indian Maritime University (IMU) is **not** correct ?

- (a) It was established through an Act of Parliament as a Central University.
- (b) It was established primarily to support the Indian Navy.
- (c) It is located in Chennai.
- (d) It was established to extend the benefits of knowledge and skill for development of individuals and society by associating closely with local, regional and national issues of development.

96. Which of the following pairs is/are correctly matched ?

<i>Plateau</i>		<i>Continent</i>
1. Abyssinian	:	Africa
2. Patagonian	:	Australia
3. Anatolian	:	Asia
4. Iberian	:	North America

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 3 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

97. Which of the following pairs of Isolines and its properties are correctly matched ?

1. Isonif	:	Snowfall
2. Isohel	:	Sunshine
3. Isohaline	:	Salinity
4. Isohypse	:	Cloudiness

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 2, 3 and 4
- (c) 1 and 3 only
- (d) 1, 2 and 4

98. Which of the following is the correct order of clouds in ascending order (lowest to highest) of height from surface ?

- 1. Cirrocumulus
- 2. Nimbostratus
- 3. Cirrus
- 4. Altostratus

Select the correct answer using the code given below :

- (a) 1, 2, 4, 3
- (b) 2, 4, 3, 1
- (c) 3, 2, 1, 4
- (d) 2, 4, 1, 3

99. Which of the following pairs of revolution in agriculture sector and its production are correctly matched?

- 1. Pink revolution : Shrimp production
- 2. Yellow revolution : Oilseeds production
- 3. Black revolution : Biodiesel production
- 4. Golden revolution : Egg production

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 2 and 4 only

100. Which one among the following statements about National Highways Authority of India (NHAI) is **not** correct ?

- (a) NHAI collects fees on the National Highway.
- (b) NHAI conducts training of Highway Engineers at entry level and in-service.
- (c) NHAI provides consultancy and construction services in India and abroad.
- (d) NHAI regulates and controls the plying of vehicles for its proper management.

101. Which of the following statements about the National Centre for Good Governance (NCGG) are correct ?

1. NCGG was set up by the Sardar Vallabhbhai Patel National Police Academy.
2. The National Institute of Administrative Research (NIAR) has been rechristened and subsumed into NCGG.
3. NCGG is an apex-level autonomous body under the Ministry of Home Affairs.
4. The Chairperson of the Governing Body of the NCGG is the Cabinet Secretary to the Government of India.

Select the correct answer using the code given below :

- (a) 1, 2 and 4
- (b) 2 and 4 only
- (c) 1 and 3 only
- (d) 3 and 4 only

102. Match List I with List II and select the correct answer using the code given below the Lists :

<i>List I</i> (International Yoga Day)	<i>List II</i> (Theme)
A. 6 th Edition	1. Yoga for well-being
B. 7 th Edition	2. Yoga for health – Yoga at home
C. 8 th Edition	3. Yoga for Vasudhaiva Kutumbakam
D. 9 th Edition	4. Yoga for Humanity

Code :

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 2 | 4 | 1 | 3 |
| (b) | 2 | 1 | 4 | 3 |
| (c) | 3 | 1 | 4 | 2 |
| (d) | 3 | 4 | 1 | 2 |

103. The joint multinational maritime exercise named IBSAMAR is conducted by the Navies of which of the following countries ?

- (a) India, Bangladesh, Sri Lanka and Maldives
- (b) India, Bangladesh and South Africa
- (c) India, Bangladesh, Sri Lanka and Mauritius
- (d) India, Brazil and South Africa

104. In which one of the following cities is the Heliopolis Commonwealth War Grave Cemetery located ?

- (a) Marseille
- (b) Washington D.C.
- (c) Cairo
- (d) Athens

105. Under which one of the following rivers has India's first underwater metro rail tunnel been constructed ?

- (a) Yamuna
- (b) Ganga
- (c) Hooghly
- (d) Gomti

106. Which among the following set of national teams participated in the South Asian Football Federation Championship – 2023 ?

- (a) Sri Lanka, India, Bangladesh
- (b) Lebanon, Kuwait, Pakistan
- (c) India, Pakistan, Myanmar
- (d) Nepal, Sri Lanka, Bhutan

107. Which butterfly species was recently named the official butterfly of Jammu and Kashmir ?

- (a) Noble's Helen
- (b) Kaiser-i-Hind
- (c) Blue Duke
- (d) Blue Pansy

108. Which company operated the ill-fated Titan submersible which recently imploded killing all five passengers while on a dive to visit the Titanic shipwreck under the waters of the North Atlantic ?

- (a) Odyssey Marine Exploration
- (b) M.A.R.E. (Marine Adventure for Research and Education)
- (c) OceanGate Expeditions
- (d) Seafarer Exploration Corporation

109. Which among the following is India's longest road tunnel ?

- (a) Atal Tunnel
- (b) Kuthiran Tunnel
- (c) Dr. Syama Prasad Mookerjee Tunnel
- (d) Banihal Qazigund Road Tunnel

110. Match List I with List II and select the correct answer using the code given below the Lists :

List I
(Padma
Vibhushan / Padma
Bhushan Awardee,
2023)

- | | |
|-----------------------------------|---------------------------|
| A. Dilip Mahalanabis (posthumous) | 1. Literature & Education |
| B. Sudha Murthy | 2. Public Affairs |
| C. S.M. Krishna | 3. Social Work |
| D. S.L. Bhyrappa | 4. Medicine |

Code :

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 4 | 3 | 2 | 1 |
| (b) | 4 | 2 | 3 | 1 |
| (c) | 1 | 2 | 3 | 4 |
| (d) | 1 | 3 | 2 | 4 |

111. Match List I with List II and select the correct answer using the code given below the Lists :

List I
(Festivals of North
East India)

List II
(State)

- | | |
|----------------------------|--------------|
| A. Hornbill Festival | 1. Meghalaya |
| B. Chapchar Kut | 2. Sikkim |
| C. Nongkrem Dance Festival | 3. Nagaland |
| D. Saga Dawa | 4. Mizoram |

Code :

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 2 | 4 | 1 | 3 |
| (b) | 3 | 1 | 4 | 2 |
| (c) | 3 | 4 | 1 | 2 |
| (d) | 2 | 1 | 4 | 3 |

112. From which one of the following countries has India procured the S-400 Triumf air defence missile system ?

- (a) United Kingdom
- (b) U.S.A.
- (c) France
- (d) Russia

113. Abhinav Bindra is the winner of the first ever individual Olympic gold medal for India. He won gold in which shooting event and in which Olympic Games ?

- (a) 10 meter air pistol, London
- (b) 10 meter air rifle, London
- (c) 10 meter air rifle, Beijing
- (d) 10 meter air pistol, Beijing

114. Cheetahs were recently re-introduced to India from Africa. From which language is the name 'Cheetah' derived ?
- (a) Swahili
(b) Afrikaans
(c) Somali
(d) Sanskrit
115. A new species of pit-viper was discovered in 2019 and named after the State in which it was found. Identify the State from among the following :
- (a) Kerala
(b) Arunachal Pradesh
(c) Andaman and Nicobar Islands
(d) Assam
116. Who among the following set of players from India have either won or secured the runner-up position in the All England Badminton Tournament ?
- (a) Prakash Padukone, P.V. Sindhu, Parupalli Kashyap
(b) Pullela Gopichand, Saina Nehwal, Lakshya Sen
(c) Prakash Padukone, Pullela Gopichand, Srikanth Kidambi
(d) Lakshya Sen, Saina Nehwal, P.V. Sindhu
117. Who among the following leaders recently won the election to the office of the President of Turkey ?
- (a) Recep Tayyip Erdoğan
(b) Kemal Kiliçdaroğlu
(c) Ahmet Necdet Sezer
(d) Abdullah Gül
118. Georgi Gospodinov Georgiev won the International Booker Prize, 2023 for the darkly comic novel by the name :
- (a) *The Promise*
(b) *Shuggie Bain*
(c) *Time Shelter*
(d) *Girl, Woman, Other*
119. The Grand Order of the Chain of the Yellow Star is the highest civilian honour of which among the following countries ?
- (a) Fiji
(b) Papua New Guinea
(c) Egypt
(d) Suriname
120. Which one among the following correctly represents the theme on which the interiors of the new Parliament Building is based ?
- | | <i>Lok Sabha</i> | <i>Rajya Sabha</i> |
|-----|------------------|--------------------|
| (a) | Lotus | Banyan |
| (b) | Peacock | Lotus |
| (c) | Peacock | Banyan |
| (d) | Lotus | Peacock |

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी.बी.सी. : JNBY-D-GNL

परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1227769

परीक्षण पुस्तिका
सामान्य ज्ञान



समय : दो घण्टे

पूर्णांक : 100

अ नु दे श

1. परीक्षा प्रारम्भ होने के तुरन्त बाद आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर और कुछ न लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए केवल एक ही प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. सभी प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर केवल उत्तर-पत्रक अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अन्त में संलग्न हैं।
10. गलत उत्तरों के लिए दण्ड :
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए गलत उत्तरों के लिए दण्ड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दण्ड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे गलत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही उसी तरह का दण्ड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दण्ड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

1. A sprinter feels cramps and pain in the thigh muscles after a run. This is due to accumulation of
 - (a) lactic acid
 - (b) CO₂
 - (c) pyruvic acid
 - (d) ethanol

2. A leaf was plucked from a plant on a sunny day and kept for 2 minutes in boiling water. It was subsequently immersed in boiling alcohol and treated with iodine solution. What will be the final colour of the leaf after the test?
 - (a) Colourless
 - (b) Green
 - (c) Blue
 - (d) White

3. If the red blood cells (RBCs) of human blood are isolated and are diluted in normal saline (an isotonic solution to blood), what will happen to the RBCs?
 - (a) The RBCs will swell
 - (b) The RBCs will swell and burst
 - (c) The RBCs will shrink
 - (d) No change in the diameters of the RBCs

4. Which one of the following statements regarding bile secreted by liver is **not** correct?
 - (a) Bile contains enzymes for digestion of lipids.
 - (b) Bile facilitates emulsification of fats.
 - (c) Bile neutralizes the acidic pH of the food coming from stomach.
 - (d) Bile makes the pH of the food alkaline and facilitates action of pancreatic enzymes.

5. The blood pressure of a normal human being is found to be 120/80 mmHg. These 'numbers' represent the blood pressure at
 - (a) ventricular contraction and ventricular relaxation, respectively
 - (b) ventricular relaxation and ventricular contraction, respectively
 - (c) auricular contraction and auricular relaxation, respectively
 - (d) ventricular contraction and auricular contraction, respectively

6. A person burned a firecracker in front of a cliff and heard its echo 5 s after it burst. The distance of the cliff from the person, if the speed of the sound is 340 m/s, is close to
 - (a) 1700 m
 - (b) 170 m
 - (c) 85 m
 - (d) 850 m

7. Consider the following statements about the microphone and the speaker of a mobile phone :

1. The microphone converts sound to a mechanical signal.
2. The microphone converts sound to an electrical signal.
3. The speaker converts a mechanical signal to sound.
4. The speaker converts an electrical signal to sound.

Which of the statements given above are correct?

- (a) 1 and 3
- (b) 1 and 4
- (c) 2 and 3
- (d) 2 and 4

8. A 100 W electric bulb is used for 10 hours a day. How many units of electrical energy are consumed by the bulb in 3 days? (1 unit = 1 kWh)

- (a) 3.00
- (b) 1.08
- (c) 2.16
- (d) 0.33

9. The area under the velocity-time graph for a particle moving in a straight line with uniform acceleration gives

- (a) its average velocity
- (b) its net displacement
- (c) the distance travelled by it
- (d) its average speed

10. The power of a lens of focal length 10 cm is

- (a) 0.1 dioptre
- (b) 1 dioptre
- (c) 10 dioptre
- (d) 100 dioptre

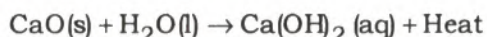
11. Consider the following statements regarding burning of magnesium ribbon in air :

1. White powder of MgO is formed.
2. It is an example of combustion reaction.
3. Heat and light are produced.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

12. Which of the following statements with regard to the reaction given below are correct?



1. Quicklime is used for white-washing of walls.
2. The solution of slaked lime is used for whitewashing of walls.
3. CaO reacts slowly with CO_2 in air to form a thin layer of CaCO_3 on walls.
4. Calcium hydroxide called 'slaked lime' is an inorganic compound.

Select the correct answer using the code given below.

- (a) 1 and 4 only
- (b) 2 and 4
- (c) 2 and 3
- (d) 1, 3 and 4

13. Which of the following statements with regard to heating of lead nitrate powder over a flame are correct?

1. Brown fumes of NO are released.
2. Colourless O₂ gas is released.
3. It is an example of oxidation reaction.
4. It is an example of thermal decomposition used for the production of NO₂ gas.

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 2, 3 and 4
- (c) 1, 3 and 4
- (d) 2 and 4 only

14. Which one of the following is **not** an oxidation reaction?

- (a) Rusting of iron
- (b) Opening of soda bottle
- (c) Rancidity
- (d) Combustion

15. Consider the following clues about a State of India :

1. It is known as 'land of red river and blue hills'.
2. It contains three of the six physiographic divisions of India.
3. It covers about 2.39 percent of total areas of the country.

Identify the State on the basis of the given clues.

- (a) Karnataka
- (b) Andhra Pradesh
- (c) Assam
- (d) Chhattisgarh

16. Which of the following sets of States shares boundary with Telangana?

- (a) Odisha, Andhra Pradesh, Karnataka, Maharashtra
- (b) Chhattisgarh, Andhra Pradesh, Karnataka, Madhya Pradesh
- (c) Odisha, Andhra Pradesh, Karnataka, Madhya Pradesh
- (d) Chhattisgarh, Andhra Pradesh, Karnataka, Maharashtra

17. Rani told her friends that last year she did boating in four different lakes, namely, Loktak, Barapani, Kolleru and Pulicat. Which of the following States did she visit?

- (a) Manipur, Meghalaya, Kerala, Tamil Nadu
- (b) Manipur, Meghalaya, Andhra Pradesh, Tamil Nadu
- (c) Mizoram, Assam, Kerala, Tamil Nadu
- (d) Mizoram, Assam, Andhra Pradesh, Tamil Nadu

18. According to the Census 2011, which of the following statements is/are correct?

1. A person who can only read but cannot write, is not literate.
2. A person aged seven years and above, who can both read and write with understanding in any language is treated as literate.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

19. The Tropic of Cancer passes through how many coastal and landlocked States of India, respectively?

- (a) 1 and 7
- (b) 2 and 6
- (c) 2 and 5
- (d) 3 and 5

20. Which one of the following situations can lead to inflation?

- (a) Rapid growth of aggregate demand outweighing supply
- (b) Sluggish growth of aggregate demand
- (c) Reduction in the money supply
- (d) Higher levels of unemployment

21. Which of the following policies help to raise interest rate unambiguously and thereby lead to appreciation of currency?

- (a) Expansionary fiscal and monetary policy
- (b) Contractionary fiscal and monetary policy
- (c) Contractionary fiscal policy and expansionary monetary policy
- (d) Contractionary monetary policy and expansionary fiscal policy

22. The contraction of private investment spending due to deficit spending by the Government is called

- (a) crowding out
- (b) crowding in
- (c) pump priming
- (d) dumping

23. Which among the following is/are the objective/objectives of the NITI Aayog?

1. Imposing policies on the States/UTs
2. Allocation of funds at National and State levels
3. Design strategies and long-term policies and programme frameworks

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 3 only

24. The computation of poverty in terms of Monthly Per Capita Consumption Expenditure (MPCE) based on the Mixed Reference Period was recommended by the

- (a) Lakdawala Committee
- (b) Tendulkar Committee
- (c) Dandekar Committee
- (d) Alagh Committee

25. Which of the following is/are the submission/sub-missions of the National Skill Development Mission (NSDM)?

- 1. Institutional training
- 2. Overseas employment
- 3. Leveraging of public infrastructure

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 2 and 3 only

26. Which of the following strategies is/are adopted for implementing the POSHAN Abhiyaan?

- 1. Inter-sectoral convergence for better service delivery
- 2. Use of technology (ICT) for real-time growth monitoring of women and children

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

27. Which of the following conditions is/are necessary for the issue of a writ of certiorari in India?

- 1. There should be a tribunal or an officer having legal authority to determine questions affecting rights of subjects and having a duty to act judicially.
- 2. Such tribunal or officer has acted without jurisdiction.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

28. Who among the following Chief Justices of India ordered the constitution of a Special Bench called 'Social Justice Bench'?

- (a) Justice H. L. Dattu
- (b) Justice K. G. Balakrishnan
- (c) Justice R. M. Lodha
- (d) Justice Y. K. Sabharwal

29. Who among the following is the author of the book, *Bandi Jivan*?

- (a) Rash Behari Bose
- (b) Veer Savarkar
- (c) Aruna Asaf Ali
- (d) Sachindranath Sanyal

30. In the election held in 1937, in which two provinces was the Indian National Congress **not** able to emerge as the single largest party?

- (a) Punjab and Sind
- (b) Assam and North-West Frontier Province
- (c) Punjab and Assam
- (d) Assam and Madras

31. Consider the following statements :

After forming the Indian National Army, Subhas Chandra Bose

1. recruited a large number of soldiers from the Indian Prisoners of War in Japanese camp
2. introduced a women's detachment named after the Rani of Jhansi

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

32. Which one of the following pairs denoting various forms of 'Bhakti' is **not** correctly matched?

- (a) Saguna : Belief in Gods with attributes
- (b) Nirguna : Belief in Gods without attributes
- (c) Alvars : Believed in devotion of Shakti
- (d) Nayanars : Believed in devotion of Shiva

33. Which two rivers flow in the region between Gulbarga and Vijayanagara Hampi?

- (a) Narmada and Godavari
- (b) Mahanadi and Godavari
- (c) Kaveri and Periyar
- (d) Krishna and Tungabhadra

34. Which of the following is the only paramilitary force with a dual control structure?

- (a) Central Reserve Police Force
- (b) Assam Rifles
- (c) Indo-Tibetan Border Police
- (d) Central Industrial Security Force

35. Which one of the following is an ethnic community of Assam?

- (a) Bhil
- (b) Gond
- (c) Ahom
- (d) Adi

36. The Chevrons is the name of the cricket team of which one of the following countries?

- (a) Australia
- (b) The Netherlands
- (c) Ireland
- (d) Zimbabwe

37. Cheetahs, brought from Namibia, were introduced in India to which one of the following National Parks?
- Kaziranga National Park
 - Keoladeo Ghana National Park
 - Keibul Lamjao National Park
 - Kuno National Park
38. Who among the following is **not** a recipient of the Nobel Prize in Physics in 2022?
- Alain Aspect
 - John F. Clauser
 - Klaus Hasselmann
 - Anton Zeilinger
39. Reflex arcs are evolved in animals for quick and efficient responses. Which one of the following sequences correctly represents a reflex arc?
- Receptor—Sensory neuron—Relay neuron in spinal cord—Brain—Motor neuron—Effector
 - Receptor—Sensory neuron—Brain—Relay neuron in spinal cord—Motor neuron—Effector
 - Receptor—Motor neuron—Relay neuron in spinal cord—Sensory neuron—Effector
 - Receptor—Motor neuron—Brain—Sensory neuron—Effector
40. Which one of the following is essential for thyroid gland to make thyroxin?
- NaCl
 - KCl
 - Cholesterol
 - Iodine
41. In plant cells, RNA is present in
- cytoplasm only
 - nuclei and cytoplasm only
 - nuclei, cytoplasm, mitochondria, chloroplast and endoplasmic reticulum
 - nuclei, cytoplasm, mitochondria, chloroplast and ribosomes
42. In grasses, intercalary meristem is usually located at
- root tip
 - lateral sides of stem
 - base of leaves
 - shoot tip
43. Xylem is a type of complex tissue in plants for upward conduction of water. Which one of the following xylem tissues consists of living cells?
- Tracheid
 - Vessel
 - Xylem parenchyma
 - Xylem fibre

44. Three resistors of resistances $11\ \Omega$, $22\ \Omega$ and $33\ \Omega$ are connected in parallel. Their equivalent resistance is equal to
- $66\ \Omega$
 - $22\ \Omega$
 - $12\ \Omega$
 - $6\ \Omega$
45. The r.m.s. potential difference between the red live wire and black neutral wire in Indian domestic electric supply is
- $160\ \text{V}$
 - $220\ \text{V}$
 - $300\ \text{V}$
 - $410\ \text{V}$
46. The hydrogen bomb and the uranium bomb are based, respectively on
- nuclear fusion and fission
 - fission and thermonuclear fusion
 - geothermal fission and fusion
 - geothermal fusion and fission
47. Sound and light waves are
- respectively longitudinal and transverse in air
 - respectively transverse and longitudinal in air
 - both longitudinal in air
 - both transverse in air
48. A car moving with a speed of $12\ \text{m/s}$ is subjected to brakes which produces a deceleration of $6\ \text{m/s}^2$. The car takes $2\ \text{s}$ to stop after the application of brakes. What is the distance covered by the car after the application of brakes?
- $12\ \text{m}$
 - $24\ \text{m}$
 - $36\ \text{m}$
 - $48\ \text{m}$
49. What is the chemical composition of a soda-acid type fire extinguisher?
- Solution of sodium hydrogen carbonate and sulfuric acid
 - Solution of sodium carbonate and sulfuric acid
 - Solution of carbon dioxide and sulfuric acid
 - Solution of sodium chloride and sulfuric acid
50. Consider the following statements :
- While diluting concentrated nitric acid solution
- the concentration of $[\text{H}_3\text{O}^+]$ ions/volume increases
 - water must be added slowly to concentrated acid
 - acid must be added slowly to water
- Which of the statements given above is/are correct?
- 1, 2 and 3
 - 1 and 2 only
 - 3 only
 - 2 and 3 only

51. Which one of the following is the correct order of pH for the given substances?

- (a) Coffee < Lemon juice < Milk of magnesia < Blood
- (b) Milk of magnesia < Blood < Coffee < Lemon juice
- (c) Lemon juice < Blood < Coffee < Milk of magnesia
- (d) Lemon juice < Coffee < Blood < Milk of magnesia

52. Which one of the following is **not** true for anodizing process?

- (a) It makes aluminium corrosion resistant.
- (b) Metals like aluminium, titanium and magnesium can be anodized.
- (c) Clean aluminium article is the anode and oxygen gas is evolved at the cathode.
- (d) It is used in aircraft industry.

53. Naphthalene burns with a yellow sooty flame. This is because

- (a) carbon to hydrogen ratio is low
- (b) there is incomplete combustion
- (c) there is excess supply of air
- (d) of presence of impurities of nitrogen and sulfur

54. Which of the following statements are true for the reaction of Fe_2O_3 with aluminium?

- 1. It is known as the 'thermite reaction'.
- 2. The heat evolved is used for welding purpose.
- 3. Aluminium metal acts as an oxidizing agent.
- 4. Molten Fe and Al are formed at the end of the reaction.

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 1 and 3
- (c) 2 and 4
- (d) 1 and 4

55. Vicky told his friends about his visit to Stewart Island, Bay of Plenty and Hawke Bay. Which country did Vicky visit?

- (a) Canada
- (b) Australia
- (c) New Zealand
- (d) Ireland

56. Manav is planning to visit all UNESCO World Heritage Sites in Delhi. He will be visiting

- (a) Red Fort, Qutab Minar, Jama Masjid
- (b) Red Fort, India Gate, Qutab Minar
- (c) Red Fort, Qutab Minar, Humayun Tomb
- (d) Red Fort, Humayun Tomb, India Gate

57. What will be the correct sequence of cities on the bank of river Ganga if someone moves from west to east?

- (a) Prayagraj, Kanpur, Bhagalpur, Patna
- (b) Prayagraj, Kanpur, Patna, Bhagalpur
- (c) Kanpur, Prayagraj, Bhagalpur, Patna
- (d) Kanpur, Prayagraj, Patna, Bhagalpur

58. Which one among the following States has the longest extension in north-south direction?

- (a) Jharkhand
- (b) Telangana
- (c) Odisha
- (d) Chhattisgarh

59. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I (Day)</i>	<i>List-II (Date)</i>
A. World Wetlands Day	1. 29 July
B. International Tiger Day	2. 22 April
C. World Water Day	3. 2 February
D. International Mother Earth Day	4. 22 March

Code :

- (a) A B C D
 3 4 1 2
- (b) A B C D
 3 1 4 2
- (c) A B C D
 2 1 4 3
- (d) A B C D
 2 4 1 3

60. Which one of the following States/UTs is **not** among the top five in the Performance Grading Index (PGI), published by the Ministry of Education for the year 2020-2021?

- (a) Kerala
- (b) Punjab
- (c) NCT of Delhi
- (d) Chandigarh

61. Consider the following statements and identify the actress :

She is a renowned film actress, director and producer, and an accomplished Indian classical dancer. She was conferred the Padma Shri in 1992 and has served as the Head of Central Board for Film Certification from 1998 to 2001. In recognition to her exemplary lifetime contribution to Indian Cinema, she was honoured with the prestigious Dadasaheb Phalke Award.

(a) Vyjayanthimala

(b) Waheeda Rehman

(c) Mala Sinha

(d) Asha Parekh

62. Which one of the following is the venue of the UN 2023 Water Conference?

(a) Washington, DC

(b) New York

(c) San Diego

(d) New Delhi

63. Which of the following statements is/are correct?

1. *Tomb of Sand*, written by Geetanjali Shree, is the first book originally written in any Indian language to win the International Booker Prize.
2. *Tomb of Sand* is the first novel translated from Hindi to be given the International Booker Prize.

Select the correct answer using the code given below.

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

64. The eighth edition of the Exercise Garuda Shakti, a bilateral military-to-military exercise, was conducted recently between the special forces of India and

(a) Japan

(b) Indonesia

(c) Bhutan

(d) Myanmar

65. Which one of the following is a measure that can be used by the Government for combatting inflation?

(a) Increasing the non-planned expenditure on defence, police, etc.

(b) Providing more subsidies on exports

(c) Increasing the rate of interest on savings and fixed deposits

(d) Reduction in the cash reserve ratio (CRR)

66. The sustained decrease in the general price level is called as

- (a) deflation
- (b) stagflation
- (c) devaluation
- (d) recession

67. Which one of the following indicators is included in the National Multidimensional Poverty Index (MPI)?

- (a) Years of schooling
- (b) Literacy rate
- (c) Life expectancy
- (d) Per capita income

68. The unemployment that occurs due to changes in the technology or in the demand for particular products is called

- (a) frictional unemployment
- (b) structural unemployment
- (c) cyclical unemployment
- (d) disguised unemployment

69. Which of the following is/are the objective/objectives of the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)?

1. Correcting regional imbalances in the availability of tertiary health care services
2. Providing universal access to public health services and universal immunization
3. Augmenting facilities for quality medical education in the country

Select the correct answer using the code given below.

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 only
- (d) 1, 2 and 3

70. Who among the following political leaders suggested the dissolution of the Indian National Congress as a political organization and its replacement by a Lok Sevak Sangh?

- (a) Vallabhbhai Patel
- (b) Dr. B. R. Ambedkar
- (c) M. K. Gandhi
- (d) Jawaharlal Nehru

71. India is the first country in the world to deploy an all-woman contingent to a UN Peacekeeping Mission. In which country did this mission operate?

- (a) Liberia
- (b) Sudan
- (c) Burundi
- (d) Croatia

72. Which one among the following is **not** a part of the SWAYAM programme?

- (a) Video lectures
- (b) Classroom lectures
- (c) Online discussion forum for clearing doubts
- (d) Specially prepared material that can be downloaded/printed

73. Which one among the following Departments/Authorities is **not** under the Ministry of Home Affairs?

- (a) The Department of States
- (b) The Department of Official Language
- (c) The National Authority Chemical Weapons Convention
- (d) The Department of Jammu, Kashmir and Ladakh Affairs

74. Who among the following is given discretionary powers under the Fifth Schedule of the Constitution of India to set up a Tribes Advisory Council in a State which has Scheduled Tribes but not Scheduled Areas?

- (a) The Governor of the concerned State
- (b) The President of India
- (c) The Inter-State Council
- (d) The Parliament of India

75. Which of the following States/UTs are included in the Northern Zonal Council?

- (a) Uttarakhand, Uttar Pradesh, Haryana, Punjab, Jammu and Kashmir
- (b) Haryana, Punjab, Himachal Pradesh, Rajasthan and NCT of Delhi
- (c) Uttar Pradesh, Uttarakhand, Punjab, Haryana and Rajasthan
- (d) Uttarakhand, Uttar Pradesh, Himachal Pradesh, Punjab and Haryana

76. The notion of kinship projected by the Kushana rulers is best evidenced through which of the following?

- (a) Their identification with deities
- (b) Grants to religious institutions
- (c) Inscriptional panegyrics
- (d) Coins and sculpture

77. Who among the following were referred to as the 'Theris' in ancient India?
- (a) Respected women
(b) Elder nuns in Buddhism
(c) Women denied the Bhikkhuni status
(d) Women expelled from the Buddhist Sangha
78. Which member of the Servants of India Society founded the Seva Samiti at Allahabad in 1914?
- (a) Shri Ram Bajpai
(b) Hriday Nath Kunzru
(c) S. G. Vaze
(d) Srinivas Shastri
79. The First Anglo-Maratha War was concluded by which one of the following?
- (a) The Treaty of Surat
(b) The Treaty of Purandar
(c) The Convention of Wadgaon
(d) The Treaty of Salbai
80. Name the battle in which the Travancore King defeated the Dutch in 1741.
- (a) The Battle of Porto Novo
(b) The Battle of Colachel
(c) The Battle of Pollilore
(d) The Battle of Changanassery
81. In which one of the following revolts did the Koya and Konda tribal chiefs rise against the local overlord from a Mansabdar family?
- (a) The Rampa Rebellion, 1879-1880
(b) The Gudem Uprising, 1886
(c) The Rampa Rebellion, 1922-1924
(d) The Telangana Armed Struggle, 1946-1951
82. Which country won the FIFA World Cup (Men) for maximum number of times?
- (a) Argentina
(b) Brazil
(c) France
(d) Spain
83. Who among the following is the author of the famous novel, *City of Joy*?
- (a) Larry Collins
(b) Dominique Lapierre
(c) Rudyard Kipling
(d) Mark Tully
84. Who among the following is honoured with the UN Environment Programme's 2022 Champions of the Earth Award in the Entrepreneurial Vision category?
- (a) Ela Bhatt
(b) Amit Dasgupta
(c) Purnima Devi Barman
(d) Vanshika Parmar

85. The theme of India's G20 Presidency 'Vasudhaiva Kutumbakam' or 'One Earth-One Family-One Future' is drawn from the

- (a) *Maha Purana*
- (b) *Maha Upanishad*
- (c) *Rig Veda*
- (d) *Smriti*

86. The 16th edition of Indo-Nepal annual joint training exercise in jungle warfare and counterterrorism operations was held in December 2022 at Nepal Army Battle School, Saljhandi. What is the name of this exercise?

- (a) Sampriti
- (b) Mitra Shakti
- (c) Yudh Abhyas
- (d) Surya Kiran

87. If it is 10:00 a.m. at Greenwich Mean Time (GMT), then what will be the time at 90° E longitude?

- (a) 5:00 a.m.
- (b) 4:00 a.m.
- (c) 3:00 p.m.
- (d) 4:00 p.m.

88. Which of the following groups of planets is termed as 'gas planets' as they are composed primarily of lighter ices, liquids and gases?

- (a) Mars, Jupiter, Neptune, Uranus
- (b) Jupiter, Uranus, Neptune, Saturn
- (c) Saturn, Mars, Jupiter, Neptune
- (d) Neptune, Saturn, Mars, Uranus

89. Consider the following characteristics of a soil type :

1. These soils consist of various proportions of sand, silt and clay.
2. These soils contain adequate proportions of potash, phosphoric acid and lime.
3. These soils can be further classified on the basis of their age.

Identify the type of soil on the basis of the given characteristics.

- (a) Alluvial
- (b) Laterite
- (c) Arid
- (d) Black

90. Consider the following statements and identify the correct answer using the code given below :

1. In a thermal power station, fuels such as oil, coal or natural gas are used to generate electricity.
2. Fuels are burned to heat water and turn it into steam, which goes through a turbine, which spins and turns, generating electricity.

Code :

- (a) Statement 1 is correct but statement 2 is not correct
- (b) Statement 2 is correct but statement 1 is not correct
- (c) Both the statements are correct and statement 2 explains statement 1
- (d) Both the statements are correct but statement 2 does not explain statement 1

91. Indus river basin is extended up to

- (a) Ladakh, Jammu and Kashmir, Himachal Pradesh, Punjab
- (b) Ladakh, Jammu and Kashmir, Punjab, Haryana
- (c) Ladakh, Jammu and Kashmir, Punjab, Haryana, Rajasthan
- (d) Ladakh, Jammu and Kashmir, Himachal Pradesh, Punjab, Haryana, Rajasthan

92. Which one of the following statements about the Solicitor General of India (SGI) is **not** correct?

- (a) The SGI is the Government's chief legal advisor.
- (b) The SGI is the secondary law officer of the country.
- (c) The post of the SGI is a constitutional post.
- (d) The SGI is appointed by the Appointments Committee of the Cabinet.

93. Which one of the following committees does **not** have members from the Rajya Sabha?

- (a) The Public Accounts Committee
- (b) The Committee on Public Undertakings
- (c) The Estimates Committee
- (d) The Committee on the Welfare of Scheduled Castes and Scheduled Tribes

94. Which one of the following statements about the election of the President of India is **not** correct?

- (a) A Union Minister shall not be eligible for election as the President.
- (b) The President is elected by the elected members of the Parliament and the Legislative Assemblies of States and Union Territories.
- (c) The Electoral College does not include elected members of the Legislative Councils.
- (d) The system of proportional representation by means of single transferable vote is followed.

95. The Citizenship Act, 1955 deals with the determination of citizenship on or after

- (a) 26th January, 1950
- (b) 26th November, 1949
- (c) 15th August, 1947
- (d) 14th August, 1947

96. According to the National Multi-dimensional Poverty Index (MPI) constructed by the NITI Aayog, a household is considered deprived if

1. a single member of the household is identified as under-nourished
2. the body mass index of a woman member, between 15 years and 49 years of age, is below 18.5 kg/m^2

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

97. The titles of 'Rayagajakesari' and 'Dayagajakesari' were associated with which one of the following dynasties?

- (a) Kakatiya
- (b) Vijayanagara
- (c) Gajapati
- (d) Rashtrakuta

98. Name the location of the musical inscription containing groups of musical notes arranged for the benefit of his pupils by a king in the seventh or eighth century CE.

- (a) Ennayiram
- (b) Uttaramerur
- (c) Siyyamangalam
- (d) Kudumiyamalai

99. In the context of eighteenth century India, what was 'Dastak'?

- (a) Signature
- (b) Land document
- (c) Trade permit
- (d) Tax on textiles

100. Which one of the following was primarily associated with 'Dadni' system?

- (a) Textile production
- (b) Warfare
- (c) Payment to officials
- (d) Revenue collection

101. Consider the following statements about Kanaganahalli archaeological site :

1. It is situated on the bank of Bhima river.
2. The remains of the Kanaganahalli Stupa can be dated between 1st and 3rd centuries CE.
3. Emperor Ashoka's image was found at the site.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

102. Which of the following statements about volcanoes are correct?

1. The strength of a volcano is measured by the Volcanic Explosive Index.
2. Iceland and Philippines were created by volcanic activity.
3. Volcanic soils are rich, deep and fertile and allow intensive agriculture to take place.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

103. Consider the following characteristics of a cloud type :

1. They are born through convection.
2. Only cloud type that can produce hail, thunder and lightning.
3. They are large cauliflower-shaped towers, often 'anvil tops'.

Identify the type of cloud on the basis of the given characteristics.

- (a) Stratocumulus
- (b) Cumulonimbus
- (c) Cirrocumulus
- (d) Nimbostratus

104. Meena wants to show diagrammatically how two sets of data, namely, population size and number of services are related to each other. Which one of the following will be the most suitable for the presentation?

- (a) Pie chart
- (b) Scatter graph
- (c) Bar chart
- (d) Triangular graph

105. Which one of the following Indian States has the longest coastline?

- (a) Tamil Nadu
- (b) Gujarat
- (c) Maharashtra
- (d) Andhra Pradesh

106. Which of the following statements is/are correct?

1. Visakhapatnam Port is a land-locked harbour.
2. Deendayal Port is a tidal port.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

107. There is an increase in forest cover area of India between 2011 and 2021. However, there is a decrease in forest cover area of India during the same period in

- (a) very dense forest (canopy density of more than 70 percent)
- (b) moderately dense forest (canopy density between 40–70 percent)
- (c) open forest (canopy density between 10–20 percent)
- (d) Both (b) and (c)

108. Consider the following statements concerning the National Education Policy, 2020 :

1. At least 50 percent of the learners through school and higher education system to get exposure to vocational education by 2025.
2. Secondary schools should collaborate with ITIs, Polytechnics and local industries.
3. Vocational education to be exclusively provided by NGOs.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

109. Which of the following sets of States is at the bottom of the Composite SDG India Index, 2020–2021 as per the NITI Aayog?

- (a) Assam, Jharkhand, Bihar
- (b) Uttar Pradesh, Jharkhand, Bihar
- (c) Uttar Pradesh, Bihar, Assam
- (d) Odisha, Bihar, Jharkhand

110. Which one of the following is **not** a part of Article 51 of the Constitution of India?

- (a) Promote international peace and security
- (b) Maintain just and honourable relations between nations
- (c) Use of UN peacekeeping force for resolution of international disputes
- (d) Encourage settlement of international disputes by arbitration

111. Who among the following was **not** in the core leadership of the Non-Aligned Movement (NAM) in its formative phase?

- (a) Kwame Nkrumah
- (b) Gamal Abdel Nasser
- (c) Jawaharlal Nehru
- (d) Fidel Castro

112. In respect to Balutedars, which of the statements given below are correct?

- 1. They were village servants and artisans.
- 2. They were employed by individual peasant family.
- 3. They existed in the Medieval Deccan and Maharashtra.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

113. Which one of the following Viceroys was the first to officially shift his Council to Simla in summer season?

- (a) John Lawrence
- (b) Lord Dalhousie
- (c) Lord Mayo
- (d) William Bentinck

114. Who among the following is the author of *Maze Vidyapeeth*, the famous poem about the life of working class of Bombay?

- (a) Narayan Surve
- (b) Amol Palekar
- (c) Bhalchandra Nemade
- (d) Narendra Jadhav

115. Who among the following founded the Hindu Dharma Sabha in the 19th century?

- (a) Radhakanta Deb
- (b) Ram Mohan Roy
- (c) Dwarkanath Tagore
- (d) Keshab Chandra Sen

116. The resolution adopted by the United Nations General Assembly on 3 March, 2021 decided to celebrate the year 2023 as the International Year of

- (a) Basic Sciences for Sustainable Development
- (b) Glass
- (c) Millets
- (d) Camelids

117. Karthik Meiyappan, who secured hat-trick in the ICC Men's T20 World Cup, 2022, represents

- (a) Zimbabwe
- (b) United Arab Emirates
- (c) Sri Lanka
- (d) Namibia

118. Which one of the following statements about the Wassenaar Arrangement is **not** correct?

- (a) There are 42 participating nations in the Arrangement.
- (b) It is formed primarily as a nuclear weapon overseer.
- (c) India is the current Chairman of the Arrangement.
- (d) India joined the Arrangement in the year 2017.

119. Who among the following is known as 'Payyoli Express'?

- (a) Hima Das
- (b) Dutee Chand
- (c) P. T. Usha
- (d) Shiny Abraham

120. Match List-I with List-II relating to Sahitya Akademi Award Winners, 2022 and select the correct answer using the code given below the Lists :

List-I
(Title and Genre)

List-II
(Author)

- | | |
|---------------------------------------|------------------------|
| A. <i>Bhool Satya</i> (Short Stories) | 1. Kamal Ranga |
| B. <i>Tumadi Ke Shabd</i> (Poetry) | 2. Veena Gupta |
| C. <i>Chhe Roopak</i> (Drama) | 3. Badri Narayan |
| D. <i>Alekhun Amba</i> (Play) | 4. Manoj Kumar Goswami |

Code :

- (a) A B C D
1 2 3 4
- (b) A B C D
1 3 2 4
- (c) A B C D
4 3 2 1
- (d) A B C D
4 2 3 1

C.D.S. (I)-2023**Series A**

Paper	2
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Subject	GENERAL KNOWLEDGE
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Total Questions	120
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Maximum Marks	100
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No. of Questions Dropped	1
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No. of Questions taken for Scoring	119
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Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key	Q. No.	Key
1	A	21	D	41	D	61	D	81	A	101	D
2	C	22	A	42	C	62	B	82	B	102	D
3	D	23	D	43	C	63	C	83	B	103	B
4	A	24	B	44	D	64	B	84	C	104	B
5	A	25	C	45	B	65	C	85	B	105	B
6	D	26	C	46	A	66	A	86	D	106	C
7	D	27	C	47	A	67	A	87	D	107	B
8	A	28	A	48	A	68	B	88	B	108	B
9	B	29	D	49	A	69	A	89	A	109	A
10	C	30	A	50	C	70	C	90	C	110	C
11	D	31	C	51	D	71	A	91	D	111	D
12	B	32	C	52	C	72	B	92	A/C	112	C
13	D	33	D	53	B	73	C	93	C	113	A
14	B	34	B	54	A	74	B	94	A	114	A
15	C	35	C	55	C	75	B	95	A	115	A
16	D	36	D	56	C	76	X	96	C	116	C
17	B	37	D	57	D	77	B	97	A	117	B
18	C	38	C	58	D	78	B	98	D	118	B
19	B	39	A	59	B	79	D	99	C	119	C
20	A	40	D	60	C	80	B	100	A	120	C

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी. बी. सी. : FWLB-F-GAI

क्रम संख्या

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परीक्षण पुस्तिका अनुक्रम

परीक्षण पुस्तिका
सामान्य योग्यता एवं बुद्धिमत्ता



समय : दो घण्टे

पूर्णांक : 250

अनुदेश

- परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
- कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की ज़िम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
- इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
- इस परीक्षण पुस्तिका में 125 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
- आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
- सभी** प्रश्नांशों के अंक समान हैं।
- इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
- आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
- कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अंत में संलग्न हैं।
- ग़लत उत्तरों के लिए दंड :
सभी प्रश्नों में उम्मीदवार द्वारा दिए गए ग़लत उत्तरों के लिए दंड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक ग़लत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का **एक-तिहाई** दंड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे **ग़लत उत्तर** माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए **कोई दंड नहीं** दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

1. Pointing towards a photograph Mr. Ajit said, "She is my father's wife's son's only sister."
What is the relation of the person in the photograph with Mr. Ajit ?
(a) Daughter
(b) Mother's sister
(c) Cousin
(d) Sister
2. Three circles of radius 5 cm each, touch each other. If the points of contact are P, Q and R, then what is the area of the triangle PQR in sq. cm ?
(a) $\frac{25\sqrt{3}}{6}$
(b) $\frac{25\sqrt{3}}{4}$
(c) $\frac{25\sqrt{3}}{2}$
(d) $25\sqrt{3}$
3. The right-angled triangle ABC is such that $\angle B = 90^\circ$. Point D is picked on BC such that triangles ABC and DBA are similar. If $AB : BC = m : n$, what is $\Delta ABC : \Delta ABD$, where Δ denotes the area of a triangle ?
(a) $n : m$
(b) $n^2 : m^2$
(c) $(m + n) : n$
(d) $(m + n)^2 : n^2$
4. On a large ground, there is a straight tall vertical wall of length 28 m. A goat is tied to a point on the ground which is at the middle of the wall, using a rope. If the length of the rope is 21 m, what is the area of the region (in sq. m) around the wall that the goat can access ?
(a) 847
(b) 851
(c) 693
(d) 654
5. A rectangular wall is divided into four squares of equal size where there are two rows each having two squares. The top left square is coloured with green. If, including green, there are three colours available and each square is coloured using any one of these three colours such that no two adjacent squares get painted with the same colour; then how many colour combinations are possible ?
(a) 2
(b) 4
(c) 6
(d) 8
6. Which of the following statements about National Emergency is/are correct ?
1. A Proclamation of Emergency may be made by the President only when the security of India or any part thereof is threatened by war or external aggression or armed rebellion.
2. The Government of India acquires power to give directions to a State on any matter.
3. The Proclamation of Emergency does not suspend the State legislature.
4. The Proclamation of Emergency can continue for a maximum period of six months at a time only if approved by resolutions of both the Houses of Parliament.
- Select the correct answer using the code given below :
(a) 1 only
(b) 1 and 2 only
(c) 1, 2 and 3 only
(d) 2, 3 and 4 only

7. Which one of the following statements with regard to the impeachment of a Judge of the Supreme Court of India is **not** correct ?

- (a) A motion addressed to the President, signed by at least 100 members of both the Houses of the Parliament is delivered to the Speaker.
- (b) The motion is investigated by a Committee of three (2 Judges of the Supreme Court and a distinguished Jurist).
- (c) If the Committee finds the Judge guilty of misbehaviour or that he suffers from incapacity, the motion together with the report of the Committee is taken up for consideration in the House where the motion is pending.
- (d) The Judge will be removed after the President gives his order for removal.

8. Which of the following are India's G20 priorities ?

- 1. Green Development
- 2. Women-led Development
- 3. Climate Finance
- 4. Digital Public Infrastructure

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1, 2 and 3 only
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

9. Which of the following are the objectives of SAARC ?

- 1. To promote the welfare of the peoples of South Asia and to improve the quality of life
- 2. To promote and strengthen collective self-reliance among the countries of South Asia
- 3. To contribute to mutual trust, understanding and appreciation of one another's problems
- 4. To work towards ending cross-border terrorism

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1, 2 and 3 only
- (c) 1, 2, 3 and 4
- (d) 3 and 4 only

10. Pure, demineralized water, free from all soluble mineral salts is obtained by which of the following method ?

- (a) Passing water through microfiltration membrane
- (b) Calgon's method
- (c) Passing water through a cation exchange and an anion exchange resin bed
- (d) By boiling

11. Consider the following redox reaction :



Identify the species among the following acting as oxidant and reductant, respectively :

- (a) Cu(I) and S of Cu_2S
- (b) Cu and S of SO_2
- (c) Cu and O of SO_2
- (d) Cu(I) and O of SO_2

12. Which one of the following statements is **not** correct regarding the setting of cement ?

- (a) The addition of a small percentage of gypsum (CaSO_4) lengthens the setting period of cement.
- (b) According to the colloidal theory, gels of hydrated silicates are formed and when these gels harden, the set cement loses strength.
- (c) Tricalcium silicate is responsible for initial setting of cement.
- (d) Dicalcium silicate and tricalcium silicate are responsible for the final strength which occurs in about a year.

13. Which one is the most abundant of all the elements on Earth ?

- (a) Silicon
- (b) Aluminium
- (c) Carbon
- (d) Oxygen

14. Which one of the following metals does **not** react with oxygen directly ?

- (a) Ti
- (b) Fe
- (c) Pt
- (d) Zn

15. Consider the following observations about the largest stupa at Sanchi :

- 1. Going by information available from the inscriptions on the railings of the stupa, the construction of part of one of its gateways was financed by the Guild of Ivory workers.
- 2. In its original early form, this stupa was plain except for the stone railings and the gateways, which were richly carved.
- 3. The panels on the four gateways contain sculptures only in the front and have no sculptures on the rear side.
- 4. In 1918, when the stupa was discovered, all of its four gates were intact but the mound was in poor condition.
- 5. Art historians have established clear connections between the sculptures of the stupa with events described in Jataka Tales.
- 6. War scenes have also been depicted in these sculptures.

Which of the observations given above are correct ?

- (a) 1, 2, 3 and 4 only
- (b) 2, 3, 4 and 5 only
- (c) 3, 4, 5 and 6 only
- (d) 1, 2, 5 and 6 only

16. Which of the following pairs are correctly matched ?

(Inscription / Event)	(Time Period)
1. Prayag Prashasti by Harishena	: 4 th century CE
2. Chinese traveller Fa Xian's Account	: 6 th century CE
3. Mudrarakshasa of Vishakhadatta	: 5 th century CE
4. Harshacharita of Banabhatta	: 6 th century CE
5. Aihole Prashasti of Ravikirti	: 7 th century CE
6. Kavirajamarga of Amoghavarsha	: 8 th century CE

Select the correct answer using the code given below :

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 4, 5 and 6 only
- (d) 1, 3 and 5 only

17. Which one of the following statements is correct ?

- (a) Brahmi, used for writing many Ashokan inscriptions, shows local variations.
- (b) The system of hieroglyphic writing was developed in ancient Mesopotamia.
- (c) The system of cuneiform writing developed around 3rd millennium BCE in Egypt.
- (d) An ancient script, Kharoshthi was widely used in the southern part of India.

18. Which one of the following activities was **not** a part of the daily time-table for a King as prescribed in *Arthashastra* ?

- (a) Receive reports on defense
- (b) Visit the town incognito
- (c) Receive revenue in cash
- (d) Consult his Council of Ministers

19. Which organelle other than nucleus in eukaryotic cells has its own DNA, ribosomes and proteins ?

- (a) Golgi
- (b) Mitochondria
- (c) Lysosomes
- (d) Nucleosomes

20. For protein synthesis, the amino acids are recognized and carried by :

- (a) mRNA
- (b) snRNA
- (c) miRNA
- (d) tRNA

21. In vertebrates, smooth endoplasmic reticulum in cells of which organ plays a crucial role in detoxification of toxic compounds ?

- (a) Spleen
- (b) Intestine
- (c) Kidney
- (d) Liver

22. The rate of an enzyme catalyzed reaction depends :

- (a) upon substrate concentration, temperature and pH.
- (b) only on substrate concentration and pH, but not on temperature.
- (c) only on pH and temperature, but not on substrate concentration.
- (d) only on temperature, but not on pH and substrate concentration.

- 23.** Both starch and glycogen are made up of glucose, however :
- starch is present in liver and glycogen is present in red blood cells.
 - glycogen is made in animal cells, but starch is made in plant cells.
 - both starch and glycogen are present in animal and plant cells.
 - both starch and glycogen are present in plant cells only.
- 24.** In some viral infections, number of platelets are reduced quickly. Platelets are essential because :
- they along with red blood cells carry oxygen.
 - platelets are important to carry food to cells through blood.
 - platelets remove carbon dioxide from blood.
 - platelets have a role in blood clotting.
- 25.** The focus of the Second Five Year Plan was :
- establishment of a self-reliant and self-generating economy with emphasis on agriculture.
 - rapid industrialization with emphasis on the development of basic and heavy industries.
 - removal of poverty and attainment of self-reliance.
 - acceleration of food-grain production and increase in employment opportunities and overall productivity.
- 26.** An Indian businessperson buys shares in a British car company. This transaction will be reflected in :
- Balance of Trade, but not in Balance of Payments.
 - Balance of Payments, but not in Balance of Trade.
 - both Balance of Payments and Balance of Trade.
 - neither Balance of Payments nor Balance of Trade.
- 27.** Which of the following are High Frequency Indicators of the Indian economy ?
- Power Consumption
 - IIP General Index
 - 10-year G-sec yield
- Select the correct answer using the code below.
- 1 only
 - 1 and 2 only
 - 2 and 3 only
 - 1, 2 and 3
- 28.** Suppose an Indian citizen makes an investment abroad and earns a positive return on her investment. Which of the following is correct ?
- Her income is part of India's GDP, but not part of India's national income.
 - Her income is part of India's national income, but not part of India's GDP.
 - Her income is part of both India's GDP and national income.
 - Her income is neither part of India's GDP, nor its national income.

29. If the Cash Reserve Ratio is lowered by the RBI, supply of money in the economy will :
- remain unchanged.
 - decrease.
 - increase.
 - have ambiguous impact.
30. Which one of the following is the main cause of the acid rains ?
- The Sun causes heating of upper layer of atmosphere.
 - The burning of fossil fuels releases oxides of carbon, nitrogen and sulphur in the atmosphere.
 - The electrical charges are produced due to friction amongst clouds.
 - The atmosphere of the Earth contains acids.
31. Biogas is considered to be an excellent fuel which burns without smoke. The main constituent of biogas is :
- methane
 - hydrogen
 - carbon dioxide
 - hydrogen sulphide
32. The depletion in atmospheric ozone layer in last century was due to :
- chlorofluorocarbon
 - carbon monoxide
 - methane
 - pesticides
33. Which one of the following holds true for a freely falling object ?
- It moves with a uniform velocity.
 - It moves with a uniform speed.
 - It moves with a non-uniform acceleration.
 - It moves with a uniform acceleration.
34. A sound wave of frequency of 2 kHz has a wavelength of 35 cm in a given medium. How long will it take to travel a distance of 2.1 km through the medium ?
- 30 s
 - 2.1 s
 - 3.0 s
 - 4.1 s
35. Which one of the following conservation laws is a consequence of the Newton's third law of motion ?
- Conservation of energy
 - Conservation of momentum
 - Conservation of charge
 - Conservation of mass
36. Which one of the following is a permeable rock that allows water to pass through it ?
- Granite
 - Limestone
 - Quartzite
 - Sill
37. Which one of the following is the deepest, inland and protected port on the east coast of India ?
- Chennai
 - Paradip
 - Tuticorin
 - Visakhapatnam
38. The greatest diversity of animal and plant species is found in :
- Temperate forests
 - Deserts and Savannas
 - Arctic and Alpine systems
 - Tropical moist forests

39. Which one among the following statements about 'Drumlin' is correct ?
- It is a streamlined hill moulded in glacial drift on the till plains.
 - It is a city located in central Europe.
 - It is a river.
 - It is a narrow road in Tibet.
40. Which one of the following is the busiest sea route and links two industrially developed regions of the world ?
- Mediterranean – Indian Ocean sea route
 - The Northern Atlantic sea route
 - Cape of Good Hope sea route
 - The North Pacific sea route
41. Using the code given below identify the type of farming on the basis of given characteristics :
- The produce is consumed entirely or mainly by the family who work the land or tend the livestock.
 - If a small surplus is produced, it may be sold or bartered.
 - It is generally small scale and labour intensive with little or no technological input.
- Code :**
- Extensive farming
 - Intensive farming
 - Subsistence farming
 - Commercial farming
42. Car A takes 1 hour more than car B, which travels at a speed of 60 km per hour, to cover some fixed distance. If car A had doubled its speed, it could cover the distance in 1 hour less time than car B travelling at 60 km per hour. What is the original speed of car A in km per hour ?
- 30
 - 40
 - 45
 - 50
43. Suppose A, B and C are three taps fixed to the bottom of a tank with draining capacity 1 : 2 : 3. When all three of them are on, it takes 1 hour to drain out the full tank. If A and C are on but B is off, then how much time, in minutes, will it take to empty out a full tank of water ?
- 75
 - 90
 - 105
 - 120
44. Assume that the Earth is a spherical ball of radius x km with a smooth surface so that one can travel along any direction. If you have travelled from point P on the Earth's surface along the East direction a distance of πx km, which direction do you have to travel to return to P so that the distance required to travel is minimum ?
- East only
 - West only
 - East or West but not any other direction
 - Any fixed direction
45. If x and y are two-digit prime numbers such that y is obtained from x by interchanging its digits and $x - y = 36$, then what is the value of xy ?
- 1611
 - 2701
 - 4031
 - 5603

46. Sixty-four cubes of sides 2 cm each are combined to form a cube of side 8 cm. If four of the smaller cubes along the diagonal of a surface are removed from the surface of the large cube, which one of the following statements about the surface area of this solid object is true ?

- (a) It is equal to the surface area of the large cube.
- (b) It is less than the surface area of the large cube.
- (c) It is more than the surface area of the large cube.
- (d) Insufficient data

47. Which of the following statements about Organization for Security and Cooperation in Europe (OSCE) are correct ?

1. There are total 57 states from Europe, Central Asia and America.
2. It offers a forum for political negotiations and decision-making in the field of early warning, conflict prevention, crisis management and post-conflict rehabilitation.
3. OSCE has the primary responsibility of providing military security in the European Region.
4. The decisions of OSCE are legally binding.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1, 2 and 3 only
- (c) 1, 2, 3 and 4
- (d) 3 and 4 only

48. Which of the following statements about Quad is/are correct ?

1. It is a group of four countries, namely, India, Australia, USA and France.
2. Maritime cooperation is an important binding force among members of the Quad.
3. The Quad members formed a working group on COVID-19 vaccines.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

49. The National Human Rights Commission was established under the statute of :

- (a) The Protection of Human Rights Act, 1993
- (b) The Protection and Implementation of Human Rights Act, 1993
- (c) The Human Rights Act, 1993
- (d) The Human Rights Commission Act, 1993

50. Which of the following is/are *not* an official language(s) of the United Nations ?

1. Arabic
2. German
3. Spanish
4. Chinese

Select the correct answer using the code given below :

- (a) 1 and 3 only
- (b) 1 and 4 only
- (c) 1 and 2 only
- (d) 2 only

51. The method used in separating a mixture of two miscible liquids having sufficient difference in their boiling points is :
- Filtration
 - Solvent Extraction
 - Centrifugation
 - Simple Distillation
52. Which one of the following statements is correct ?
- Alloys are mixtures.
 - Alloys are compounds.
 - Alloys are always made up of metals.
 - All alloys contain carbon as one of their components.
53. The common element in graphite, fullerene, diamond and graphene is :
- Oxygen
 - Nitrogen
 - Hydrogen
 - Carbon
54. The gas generated on reacting zinc with dilute sulphuric acid is :
- Argon
 - Helium
 - Hydrogen
 - Nitrogen
55. An aqueous solution of a salt is known as brine. The salt is :
- Sodium chloride
 - Potassium chloride
 - Calcium chloride
 - Sodium nitrate
56. Which one of the following commissions was **not** associated with public services in India ?
- Aitchison Commission
 - Islington Commission
 - Lee Commission
 - Radhakrishnan Commission
57. Who among the following was known as 'Lokhitwadi' ?
- Keshub Chandra Sen
 - Gopal Hari Deshmukh
 - M.G. Ranade
 - Gopal Ganesh Agarkar
58. Match List-I with List-II and select the correct answer using the code given below the Lists :
- | <i>List-I</i>
(Harappan Site) | <i>List-II</i>
(Location) |
|----------------------------------|------------------------------|
| A. Nageshwar | 1. Uttar Pradesh |
| B. Alamgirpur | 2. Rajasthan |
| C. Kalibangan | 3. Saurashtra |
| D. Rakhigarhi | 4. Haryana |
- Code :**
- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 3 | 1 | 2 | 4 |
| (b) | 4 | 2 | 1 | 3 |
| (c) | 4 | 1 | 2 | 3 |
| (d) | 3 | 2 | 1 | 4 |
59. Which one of the following pairs of books and their authors is **not** correctly matched ?
- Bandi Jiwan* : Sachindranath Sanyal
 - The Philosophy of the Bomb* : Bhagwati Charan Vohra
 - Indian Unrest* : Annie Besant
 - Deshar Katha* : Sakharam Ganesh Deuskar

- 60.** Which of the following is/are important markers for the archaeologists to identify an archaeological site as a 'center of craft production' ?
1. Evidence of raw materials such as stone nodules, whole shells, etc.
 2. Geographical expanse of the site
 3. Evidence of unfinished objects, rejects and waste material
 4. Evidence of variety of pottery
- Select the correct answer using the code given below :
- (a) 1 only
 - (b) 1 and 3 only
 - (c) 2 and 4 only
 - (d) 3 only
- 61.** In humans, urea is mainly formed from the metabolism of which one of the following components of food ?
- (a) Fatty acids
 - (b) Vitamins
 - (c) Amino acids
 - (d) Glucose
- 62.** The lymph is mainly formed from the plasma of blood and it surrounds the cells. The main difference between blood and lymph is :
- (a) Lymph does not contain red blood cells.
 - (b) Lymph does not contain white blood cells.
 - (c) Lymph contains both red blood cells and white blood cells.
 - (d) Lymph does not contain any cells.
- 63.** For the digestion of carbohydrate, protein and fat, enzymes such as amylase, trypsin and lipase are required. It is secreted into the duodenum through :
- (a) Bile
 - (b) Plasma
 - (c) Lymph
 - (d) Pancreatic juice
- 64.** Lactic acid is formed in the muscles during exercise or running. It is formed :
- (a) to give extra energy from fat.
 - (b) to give extra oxygen from lungs.
 - (c) to give extra energy from glucose.
 - (d) to give extra energy from vitamins.
- 65.** Fiscal deficit in the Union Budget means :
- (a) the difference between current expenditure and current revenue.
 - (b) net increase in the borrowings of the Union Government from the Reserve Bank of India.
 - (c) the sum of budgetary deficits and the net increase in internal and external borrowings.
 - (d) None of the above
- 66.** Which one of the following is the largest component of revenue expenditure in the Union Budget 2022 – 23 ?
- (a) Interest payments
 - (b) Defense expenditure
 - (c) Expenditure on healthcare
 - (d) Subsidies

67. Adequacy of foreign exchange reserves of a country is captured by which of the following indicators ?

1. Reserves to import ratio
2. Reserves to external debt ratio
3. Reserves to GDP ratio
4. Reserves to monetary aggregates

Select the correct answer using the code below :

- (a) 1 and 3 only
- (b) 1, 2, 3 and 4
- (c) 2, 3 and 4 only
- (d) 1, 2 and 4 only

68. If all the people of the economy increase the proportion of income they save, the total value of savings in the economy will either decrease or remain unchanged. This phenomenon is known as :

- (a) Crowding out
- (b) Crowding in
- (c) Paradox of thrift
- (d) Paradox of prosperity

69. The banks are required to maintain a certain ratio between their cash in hand and total assets. This ratio is known as :

- (a) Cash Reserve Ratio (CRR)
- (b) Statutory Liquidity Ratio (SLR)
- (c) Central Bank Reserve (CBR)
- (d) Statutory Bank Ratio (SBR)

70. A simple harmonic motion of a particle is represented as, $y = 10 \cos \omega t$. The acceleration of the particle at time $t = \frac{\pi}{2\omega}$ will

be : (symbols here carry their usual meanings)

- (a) 10ω
- (b) $-10 \omega^2$
- (c) 0
- (d) $\frac{10}{\omega}$

71. A wire of resistance R is cut into four equal parts. These parts are then connected in parallel. If the equivalent resistance of this combination is R', then the ratio $\frac{R'}{R}$ is :

- (a) $\frac{1}{16}$
- (b) $\frac{1}{4}$
- (c) 4
- (d) 16

72. In experiment #1, a bar magnet is moved towards a conducting wire loop axially, with the magnet's north pole facing the loop. In experiment #2, the same process as in experiment #1 is repeated except that the south pole of the magnet faces the loop. Which one of the following statements is true in this context ?

- (a) The direction of current in the loop will be of opposite nature in both the experiments.
- (b) The direction of current in the loop will be the same in both the experiments.
- (c) No current will flow in either of the two experiments.
- (d) More current will flow in the loop in experiment #1.

73. Which one of the following correctly explains the change in seasons on Earth ?
- Tilt of the Earth's axis
 - Rotation of the Earth on its own axis
 - Revolution of the Moon around the Sun
 - Interaction of the Earth with other planets

74. Consider the following statements :

- The Great Northern Plains are formed by basins of three distinct river systems — the Indus, the Ganga and the Brahmaputra.
- They are one of the most densely populated areas on Earth.
- Between the Yamuna at Delhi and the Bay of Bengal, nearly 1600 km away, there is a drop of only 200 metres in elevation.

Which of the statements given above are correct ?

- 1, 2 and 3
- 2 and 3 only
- 1 and 2 only
- 1 and 3 only

75. Consider the following statements :

- Many of the world's largest mountain chains exist beneath the sea.
- Some mountain chains are revealed as island arcs.
- The mid-oceanic ridges form the longest mountain chains.
- The mid-Atlantic ridge rises thirty-three metres above the floor of the Atlantic.

Which of the statements given above are correct ?

- 1 and 2 only
- 3 and 4 only
- 1, 2 and 4 only
- 1, 2 and 3 only

76. Match List-I with List-II and select the correct answer using the code given below the Lists :

List-I
(Temperate
Grassland)

List-II
(Region)

- | | |
|-------------|------------------|
| A. Prairies | 1. Eurasia |
| B. Steppes | 2. South Africa |
| C. Pampas | 3. North America |
| D. Veldt | 4. South America |

Code :

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 2 | 1 | 4 | 3 |
| (b) | 2 | 4 | 1 | 3 |
| (c) | 3 | 1 | 4 | 2 |
| (d) | 3 | 4 | 1 | 2 |

77. Consider the following statements about millets :

- Millets are often referred to as climate-resilient crops because they can grow on arid lands with minimal inputs and maintenance.
- Millets are a good source of minerals, dietary fibre, antioxidants and protein.
- Millets, including sorghum, account for less than 3% of the global grains trade.

Which of the statements given above are correct ?

- 1 and 2 only
- 1 and 3 only
- 2 and 3 only
- 1, 2 and 3

Directions : The next **three** items are based on a survey on occurrence of vowels in a certain book irrespective of whether they are in upper or lower case.

Vowel	A	E	I	O	U
Percentage	20	45	15	8	12

78. For how many pairs of vowels is the chance of occurrence of any one of the two more than 34% in the book ?

- (a) 4
- (b) 5
- (c) 6
- (d) 7

79. Among the three vowels which occur minimum number of times, what is the percentage of occurrence of the letter that occurs the maximum number of times among them ?

- (a) $42\frac{6}{7}\%$
- (b) $41\frac{5}{7}\%$
- (c) $40\frac{4}{7}\%$
- (d) $39\frac{2}{7}\%$

80. If "O" and "U", irrespective of upper or lower case, occur exactly 5040 times, then how many times does the letter "E" occur in the book in the upper or the lower case ?

- (a) 11840
- (b) 11600
- (c) 11430
- (d) 11340

81. Suppose a, b and c are three distinct natural numbers such that $a + b + c = abc$.

Consider the following statements :

1. The arithmetic mean of a, b and c is a natural number.
2. The harmonic mean of a, b and c lies between 1 and 2.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

82. How many three-digit numbers are possible such that the difference between the original number and the number obtained by reversing the digits is 396 ? (no digit is repeated)

- (a) 4
- (b) 5
- (c) 50
- (d) 40

83. Which of the following statements is/are correct ?

1. Population ageing is the process by which the share of the older population becomes proportionately lesser.
2. In most of the developed countries, the population in higher age groups has increased.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

84. Which of the following statements is/are correct about 'Action for Climate Empowerment' (ACE) ?

1. It is a term adopted by the UN Framework Convention on Climate Change.
2. This term is related to the Paris Agreement.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

85. What is 'Climate Neutral Now' initiative ?

1. It encourages organizations and other interested stakeholders to act now in order to achieve a carbon neutral world by 2030.
2. It derives its aims from the Paris Agreement.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

86. Which of the following statements is/are correct about KAVACH-2023 ?

1. It is a joint coordination committee of all three wings of India's armed forces to protect India's borders.
2. It is India's national level hackathon jointly launched by AICTE and BPRD to tackle cyber threats.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

87. Which one among the following statements with reference to the 'Neolithic Period' is **not** correct ?

- (a) The characteristic features of the period included ground and polished stone tools, agriculture, animal domestication and pottery.
- (b) This period is also known as the 'New Stone Age'.
- (c) The characteristic features appeared almost at the same time in various parts of the subcontinent.
- (d) Earliest evidence of agriculture is found from Mehrgarh around 8000 BCE.

88. Which one of the following is **not** a pottery type ?

- (a) OCP
- (b) CCE
- (c) NBP
- (d) BRW

89. Which one of the following political centers finds a mention in Ashokan inscriptions ?

- (a) Indraprastha
- (b) Kaushambi
- (c) Suvarnagiri
- (d) Kandahar

90. Which one of the following statements with reference to the ancient Indian coins is **not** correct ?

- (a) The Indo-Greeks issued the first coins bearing the name and images of rulers.
- (b) The Kushanas issued the first gold coins.
- (c) The Kushana gold coins were different in weight from the coins issued by contemporary Roman emperors.
- (d) These Kushana gold coins have been found from several sites in north India and central Asia.

91. Consider the following statements about the practice of Vedic sacrifices :

1. The shrauta (Vedic sacrifices) involved the use of three fires — the garhapatya (householder's fire), ahavaniya (offeratorial fire) and dakshinagni (southern fire).
2. These fires were supposed to be placed in pits of different shapes, i.e., the garhapatya to be square, ahavaniya to be round and that of the dakshinagni, rectangle-shaped.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

92. Trans-Siberian Railway from St. Petersburg to Vladivostok does **not** run across :

- (a) Altai range
- (b) Caucasus mountains
- (c) Ural mountains
- (d) Ob and Yenisei rivers

93. Consider the following statements about Barchans :

1. These landforms are found in Thar desert in India.
2. The windward side has concave slope with maximum height at the centre.
3. Two ends of the barchan are called horns.

Which of the statements given above is/are correct ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 3 only

94. Consider the following statements :

1. Geothermal energy can be used to produce electricity or its hot water can be used directly for industry, agriculture, bathing and cleaning.
2. Nuclear energy is often cheaper than some other sources of electricity.
3. Thermal power stations burn fossil fuels to create steam to drive the turbines.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 1, 2 and 3
- (c) 1 and 3 only
- (d) 2 and 3 only

95. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (International Convention)	<i>List-II</i> (Theme)
A. Stockholm Convention	1. Hazardous chemicals and pesticides in international trade
B. Minamata Convention	2. Persistent organic pollutants
C. Basel Convention	3. Binding instrument on mercury
D. Rotterdam Convention	4. Transboundary movement of hazardous wastes and their disposal

Code :

	A	B	C	D
(a)	1	4	3	2
(b)	1	3	4	2
(c)	2	4	3	1
(d)	2	3	4	1

96. The Judgment of the Supreme Court in *Peoples' Union for Civil Liberties v. Union of India 2004* is related to which of the following ?

- (a) Right to Shelter
- (b) Right against Custodial violence
- (c) Right to Information
- (d) Right to Speedy trial

97. Which among the following deals with Habeas Corpus ?
- State of Uttar Pradesh v. Raj Narain and Ors. (1975)*
 - Additional District Magistrate, Jabalpur v. Shivakant Shukla (1976)*
 - Mrs. Maneka Gandhi v. Union of India (1978)*
 - Nandini Satpathy v. P.L. Dani (1978)*
98. Which among the following statements regarding the powers of the High Courts under Article 226 of the Constitution of India is **not** correct ?
- It can issue writs of habeas corpus, mandamus, quo warranto, certiorari, and prohibition.
 - Writs can be issued to enforce any rights conferred by Part-III and for any other purpose.
 - This power can derogate the power conferred on the Supreme Court under Article 32(2).
 - Writ can be issued to any authority under its jurisdiction.
99. Which among the following is **not** correct ?
- Legislation on criminal law, barring exceptions, is a subject under the Concurrent List.
 - Bankruptcy and Insolvency are subjects under the Concurrent List.
 - Inter-State trade and commerce is a subject under the State List.
 - Banking is exclusively under the Union List.
100. 'Basel Convention', 'Rotterdam Convention' and 'Stockholm Convention' relate to which of the following ?
- Human Rights of Prisoners
 - Management of Pollutants
 - Conservation of Wetlands
 - Conservation of Rivers
101. Which of the following is/are **not** correct about the Mother's Absolute Affection Programme ?
- Allows all pregnant women to absolutely free and no-expense delivery in public health institutions.
 - Provides assured, comprehensive and quality antenatal care.
 - Promotes undiluted focus on breastfeeding.
 - Provides medical and nutritional care to severely acute malnourished children.
- Select the correct answer using the code given below :
- 1, 2 and 3 only
 - 2 and 3 only
 - 1, 2 and 4 only
 - 3 only
102. Which of the following statements about the Right to Information Act, 2005 is/are correct ?
- There shall be not more than twelve (12) Information Commissioners.
 - The Chief Information Commissioner shall hold office for a term of five years.
 - The Chief Information Commissioner is eligible for reappointment.
- Select the correct answer using the code given below :
- 1 only
 - 2 only
 - 1 and 2 only
 - 1, 2 and 3
103. Who among the following was the first pro-tem Speaker to be unanimously elected as the Speaker of the Lok Sabha ?
- Rabi Ray
 - Hiren Mukherjee
 - Somnath Chatterjee
 - P.A. Sangma

104. Consider the following statements with reference to Jainism :

1. Vardhamana Mahavira attained Kaivalyajnana outside the town of Jrimbhikagrama, on the banks of river Rijupalika and in the field of a householder named Samaga.
2. The state when the Karma particles actually begin to flow towards the Jiva to bind it is known as Asrava.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

105. Consider the following pairs with reference to textiles in Southern India :

(Tax)	(Meaning)
1. Panjupeeli	: on cotton yarn
2. Nulayam	: on cotton thread
3. Tari kadamai	: on silk clothes
4. Sella	: on silk thread

Which of the pairs given above is/are correct ?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

106. Which one of the following animals does **not** come under the category of four noble animals (*Maha-Ajaneya Pasu*) carved on the round drum (*Anda-Phalaka*) of the lion capital at Sarnath ?

- (a) Deer
- (b) Lion
- (c) Bull
- (d) Horse

107. The ruler Vindhyashakti during the period preceding the Gupta Age is associated with which one of the following dynasties ?

- (a) Vakatakas
- (b) Chalukyas
- (c) Kalachuris
- (d) Sungas

108. The ancient Indian medical treatise for horses called *Ashvashastra* is attributed to which one of the following persons ?

- (a) Vagbhatta of the seventh century
- (b) The sage Shalihotra
- (c) Bhartrihari of the seventh century
- (d) Varahamihira of the sixth century

109. The celebrated group of poets in medieval Mathura and Vrindavana called the *Ashta-Chhapa* were the successors of which one of the following medieval Bhakti Saints ?

- (a) Kabir of Benaras
- (b) Chaitanya of Bengal
- (c) Guru Nanak of Punjab
- (d) Surdas of Braj region

110. Consider the following statements about Laterite soil found in India :

1. Laterite soil is found in high altitudes of Himalaya.
2. It is a very fertile soil.
3. It is a red colour soil due to presence of iron oxide.
4. It is poor in Nitrogen, Potash and organic matter.

Which of the statements given above is/are correct ?

- (a) 3 only
- (b) 2 and 4 only
- (c) 3 and 4 only
- (d) 1, 3 and 4 only

111. Which of the following statements about Ragi crop grown in India is correct ?
- It is a millet crop grown in drier parts of south India.
 - It is a Rabi crop sown between November and March.
 - It is a rainfed crop grown on red, light black and sandy loam soil.
 - It is grown between 20 degree Celsius and 30 degree Celsius of temperature and 50 – 100 cm rainfall.
112. Consider the following statements about rock structure :
- Conglomerates are clastic sedimentary rocks.
 - Slate is a non-clastic sedimentary rock.
 - Granite is a plutonic igneous rock.
 - Basalt is an extrusive igneous rock.
- Which of the statements given above are correct ?
- 1, 2 and 3 only
 - 3 and 4 only
 - 1 and 2 only
 - 1, 3 and 4 only
113. Consider the following statements about Ramsar Wetland sites in India :
- Gahirmatha is the habitat of Olive Ridley Turtles.
 - Chilka lake is the habitat of Irrawaddy Dolphin as its flagship species.
 - Nalsarovar Wetland is also the habitat of Indian Wild Ass (Khur).
 - Tso Moriri Wetland is the habitat and breeding ground of Black-necked Crane.
- Which of the statements given above are correct ?
- 1 and 3 only
 - 1, 3 and 4 only
 - 2 and 4 only
 - 1, 2, 3 and 4
114. Which of the following soil formation process takes place in Phumdis (floating fields) in Loktak Lake of Manipur ?
- Laterization
 - Podzolization
 - Gleization
 - Calcification
115. Which one of the following statements is correct about Spring tides ?
- High tide is higher than average high tide and Low tide is higher than average low tide.
 - High tide is lower than average high tide and Low tide is higher than average low tide.
 - High tide is higher than average high tide and Low tide is lower than average low tide.
 - High tide is lower than average high tide and Low tide is lower than average low tide.
116. Consider the following statements about IPL cricket tournament :
- Two teams won the tournament five times each.
 - Chennai Super Kings remained runner-up in five editions of the tournament.
 - On three occasions, the final was played abroad.
- Which of the statements given above is/are correct ?
- 1, 2 and 3
 - 2 and 3 only
 - 1 and 2 only
 - 3 only

117. Consider the following statements about Khelo India University Games (KIUG) :
1. The first edition of KIUG was held in Odisha.
 2. The name of the mascot of the third edition of KIUG was Jeetu.
 3. The first edition of KIUG was postponed due to COVID.
- Which of the statements given above is/are correct ?
- (a) 1, 2 and 3
 - (b) 2 and 3 only
 - (c) 1 and 2 only
 - (d) 3 only
118. Exercise *Ajeya Warrior* is a biennial training event between the Indian Army and the army of :
- (a) Nepal
 - (b) United Kingdom
 - (c) Russia
 - (d) Japan
119. The journey of the First Phase of *Sagar Parikrama* Yatra, an initiative of the Government of India, was started from :
- (a) Andaman and Nicobar Islands
 - (b) Maharashtra
 - (c) Karnataka
 - (d) Gujarat
120. The annual *Kheer Bhawani Mela* is organized at :
- (a) Kabaw Valley
 - (b) Kashmir Valley
 - (c) Dah Hanu Valley
 - (d) Upper Dibang Valley
121. NISAR satellite is manufactured jointly by Indian Space Research Organisation and :
- (a) Japan Aerospace Exploration Agency
 - (b) National Aeronautics and Space Administration
 - (c) Russian Federal Space Agency
 - (d) European Space Agency
122. 'Operation Kaveri' is a rescue operation launched by the Government of India to evacuate Indian citizens who were stranded in :
- (a) Kuwait
 - (b) Ukraine
 - (c) Afghanistan
 - (d) Sudan
123. 'Rail Vikas Nigam Limited' is a :
- (a) Maharatna CPSE
 - (b) Navaratna CPSE
 - (c) Miniratna I CPSE
 - (d) Miniratna II CPSE
124. What are *Airawat*, *Param Siddhi*, *Pratyus* and *Mihir* ?
- (a) Super Computers of India
 - (b) Battle Tanks of India
 - (c) Supersonic Missiles of India
 - (d) Indian Naval Ships
125. Which one of the following Indian Naval Ships has recently concluded a 17,000-nm trans-ocean intercontinental voyage ?
- (a) INS Tarangini
 - (b) INS Mandovi
 - (c) INSV Mhadei
 - (d) INSV Tarini

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी.बी.सी. : DFTK-F-TAG

परीक्षण पुस्तिका अनुक्रम

Serial No. 0337829

परीक्षण पुस्तिका सामान्य योग्यता परीक्षण

A

समय : दो घण्टे और तीस मिनट

पूर्णांक : 600

अनुदेश

- परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हों। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लीजिए।
- कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को, ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जायेगा।
- इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर और कुछ न लिखें।
- इस परीक्षण पुस्तिका में 150 प्रश्नांश (प्रश्न) दो भागों में दिए गए हैं : भाग - A और भाग - B। भाग - B में प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए केवल एक ही प्रत्युत्तर चुनना है।
- आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखिए।
- सभी प्रश्नांशों के अंक समान हैं।
- इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
- आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर केवल उत्तर-पत्रक अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
- कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अन्त में संलग्न हैं।
- गलत उत्तरों के लिए दंड :
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए गलत उत्तरों के लिए दंड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दंड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे गलत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दंड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

PART – B

51. The streaming of light beams coming from the Sun through trees is said to have suggested that light travels in straight line. The particles on the path of light beams are visible to us because
- (a) dust particles in the air reflect light into our eyes
 - (b) dust particles in the air scatter light into our eyes
 - (c) dust particles in the air refract light into our eyes
 - (d) dust particles in the air polarize light into our eyes
52. The flash of lightning is seen before the thunderstorm is heard. It verifies that
- (a) sound travels much faster than light
 - (b) light travels much faster than sound
 - (c) light and sound both travel with same speed
 - (d) intensity of flash of lightning is very high during thunderstorm
53. The potential difference between the two end terminals of an electric heater is 220 V and the current through it is 0.5 A. What would be the current through the heater if the potential difference across the terminals of the heater is reduced to 120 V ?
- (a) 1.0 A
 - (b) 0.5 A
 - (c) 0.27 A
 - (d) 0.7 A
54. The heating element in an electric iron is usually made of
- (a) Constantan
 - (b) Tungsten
 - (c) Nichrome
 - (d) Copper
55. Sita, 1.5 m high, stands before a plane mirror fixed on a wall to view her full image. What should be the minimum height of the plane mirror so that Sita can view her image fully ?
- (a) 0.50 m
 - (b) 0.35 m
 - (c) 0.75 m
 - (d) 0.25 m
56. Galvanization is a method of protecting iron from rusting by coating with a thin layer of
- (a) Gallium
 - (b) Aluminum
 - (c) Zinc
 - (d) Silver

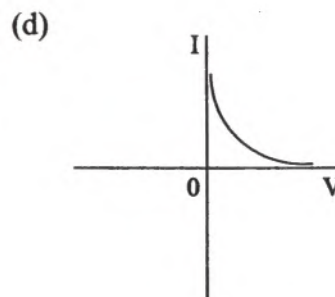
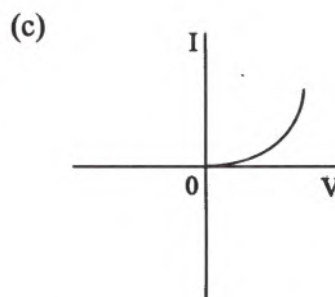
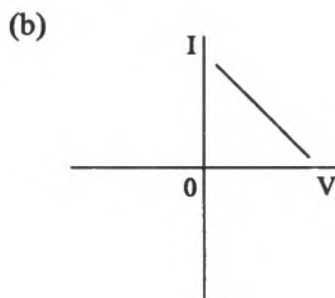
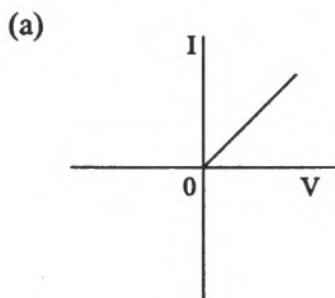
57. Which one of the following alloys contains a non-metal as one of its constituent ?

- (a) Brass
- (b) Bronze
- (c) Amalgam
- (d) Steel

58. Buckminster fullerene, which looks like a football, is an allotropic form of

- (a) Phosphorus
- (b) Sulfur
- (c) Carbon
- (d) Tin

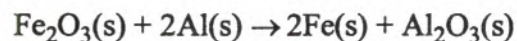
59. Which one of the following graphs correctly represents the current (I) – voltage (V) variation for a rectangular piece of a semiconductor wafer ?



60. The green plants in a terrestrial ecosystem absorb sunlight that falls on their leaves and convert it into food energy. The percentage of solar radiation absorbed by all green plants for the process of photosynthesis is about

- (a) 1%
- (b) 5%
- (c) 8%
- (d) 10%

61. Consider the following reaction :



Which of the following statements about the given reaction is NOT correct ?

- (a) It is an example of displacement reaction
- (b) It is highly endothermic reaction
- (c) Fe_2O_3 acts as oxidizing agent
- (d) This reaction is applicable to joining of railway tracks

62. Match List I with List II and select the correct answer using the code given below the Lists :

List I (Chemical process)	List II (Reaction)
A. Electrolysis of water	1. Double displacement reaction
B. Burning of coal	2. Combination reaction
C. Iron nail immersed in copper sulphate solution	3. Decomposition reaction
D. Addition of barium chloride solution to aluminium sulphate solution	4. Displacement reaction

Code :

	A	B	C	D
(a)	3	4	2	1
(b)	4	2	1	3
(c)	3	2	4	1
(d)	4	1	2	3

63. Which one of the following processes involves chemical reaction ?

- (a) Evaporation of petrol
- (b) Dissolution of salt in water
- (c) Storing of oxygen gas under pressure in a gas cylinder
- (d) Burning of magnesium ribbon in air

64. Which one of the following metals does NOT react with cold water to liberate hydrogen gas ?

- (a) Potassium
- (b) Iron
- (c) Calcium
- (d) Sodium

65. Consider the following reaction :



The respective state of HgO, Hg and O₂ in the above reaction is

- (a) Liquid, solid, gas
- (b) Solid, solid, gas
- (c) Liquid, solid, liquid
- (d) Solid, liquid, gas

66. The two important features of sexual reproduction in higher organisms that create genetic diversity in offspring are

- (a) Mitosis and fertilization
- (b) Meiosis and fertilization
- (c) Mitosis and binary fission
- (d) Meiosis and conjugation

67. Eukaryotic cells are much more complex as compared to prokaryotes. Which one of the following structures is exclusively present in a eukaryotic cell ?

- (a) Cell wall
- (b) Plasma membrane
- (c) Nucleic acid
- (d) Mitochondria

68. An important cause of tooth decay by the bacterium *Streptococcus mutans* is because of their ability to attach to teeth surface by producing slime layer from
- Sugar
 - Alcohol
 - Saliva
 - Teichoic acid
69. In angiosperms, pollen grain germinates to produce two male gametes. Which one of the following functions is carried out by these gametes ?
- Both the gametes fuse with a single egg cell
 - Both the gametes fuse with two different egg cells
 - One gamete fuses with the egg cell and the other one eventually degenerate
 - One gamete fuses with the egg cell and the other one fuses with a diploid secondary nucleus
70. In a sexually reproducing organism, which one of the following statements is appropriate both for the parent and offspring ?
- Chromosome number increases but DNA content remains constant
 - Both chromosome number and DNA content remains constant
 - Chromosome number decreases but DNA content remains constant
 - Both chromosome number and DNA content decreases
71. Relationship between a flower and honey-bee will help the flower for/in
- Faster development
 - Pollination
 - Quick germination of pollen
 - Increase in size
72. Which one of the following was NOT a way in which kings in ancient India attempted to claim a higher status ?
- Identifying with a variety of deities
 - Assuming pompous titles
 - Imposing high taxes
 - Conquests and annexation of territories
73. Which one of the following statements about the Bhakti movement is NOT correct ?
- The Bhakti movement avoided traditions that promoted diversity
 - In northern India, the Bhakti movement revolved around the worship of Rama and Krishna
 - The Bhakti movement relied on the devotion of God, both with and without attributes
 - While Tulsidas represented the tradition of devotion with attributes, Sant Kabir followed the path of devotion without attributes
74. The 'Reign of Terror' in revolutionary France referred to
- Bands of revolutionaries moving around to terrorise people who did not participate in the revolution
 - The royal forces punishing people who participated in the revolution
 - Trial and beheading persons considered enemies of the republic by the revolutionary tribunal
 - The general atmosphere of insecurity perceived by people after the beheading of the king

75. In which one of the following ways did the First World War Not impact Europe ?
- From a continent of creditors it turned into a continent of debtors
 - Soldiers came to be placed higher in social status than civilians
 - Popular support decreased for conservative dictatorship which had come into being recently
 - National honour occupied centre stage in the public sphere
76. "...the immediate ending of British rule in India is an urgent necessity..." was a resolution of
- Non Co-operation Movement
 - Quit India Movement
 - Individual Movement
 - Civil Disobedience Movement
77. Which one among the following pairs of mine and mineral is NOT correctly matched ?
- Bailadila : Iron Ore
 - Zawar : Zinc
 - Ghatsila : Copper
 - Kudremukh : Bauxite
78. Which one of the following is the usual unit of measurement for Air Pressure used in India ?
- Centimeter
 - Millibar
 - Milligram
 - Milliliter
79. Which one of the following is the oldest era in Geological History determining the age of various rock types ?
- Precambrian
 - Mesozoic
 - Cenozoic
 - Paleozoic
80. A geographical grid has :
- Lines that run east to west around the globe to mark latitude
 - Lines that run north to south from north pole to south pole indicate longitude
- Which of the statements given above is/are correct ?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
81. In which one of the following layers of the atmosphere all weather phenomenon occur ?
- Mesosphere
 - Troposphere
 - Thermosphere
 - Stratosphere
82. In which one of the following states 'Roopkund' lake is located ?
- Kerala
 - Manipur
 - Himachal Pradesh
 - Uttarakhand

83. Ram records the odometer readings of his car for the distance covered from 2000 km at the start of his journey and 2400 km at the end of the journey after 8 hours. What is the average speed of the car ?

- (a) 50 km/h
- (b) 60 km/h
- (c) 70 km/h
- (d) 80 km/h

84. Ms. Rani decides to convert her AC generator into a DC generator. Which one of the following she would need to use ?

- (a) A split-ring type commutator
- (b) Slip rings and brushes
- (c) A stronger magnetic field
- (d) A rectangular wire loop

85. Ramesh cannot see distinctly objects kept beyond 2 m. This defect can be corrected by using a lens of power

- (a) + 0.5 D
- (b) - 0.5 D
- (c) + 0.2 D
- (d) - 0.2 D

86. Which of the following statements are correct about the electrical resistance and resistivity of a wire ?

1. Both quantities depend on the area of cross-section of the wire
2. Both depend on the temperature
3. Resistance of the wire is directly proportional to the resistivity of the wire
4. Resistivity of the wire is directly proportional to the length of the wire

Select the correct answer using the code given below :

- (a) 1 and 2
- (b) 1 and 3
- (c) 2 and 3
- (d) 2 and 4

87. A liquid is heated up to a certain temperature. Which one of the following situation would correspond to the boiling of the liquid ?

- (a) When atmospheric pressure becomes equal to the vapour pressure
- (b) When atmospheric pressure becomes less than vapour pressure
- (c) When atmospheric pressure becomes higher than the vapour pressure
- (d) When vapour pressure becomes equal to the air pressure

88. Which one of the following is NOT an example of organic compound ?

- (a) Ammonium cyanate
- (b) Marsh gas
- (c) Urea
- (d) Cane sugar

89. Which one of the following acid is used by goldsmith for cleaning of gold and silver articles ?

- (a) Sulphuric acid
- (b) Nitric acid
- (c) Hydrochloric acid
- (d) Phosphoric acid

90. What is the action of litmus on ethanol ?

- (a) Litmus is neutral towards ethanol
- (b) Ethanol turns blue litmus to red; confirming acidic nature of ethanol
- (c) Ethanol turns red litmus to blue; confirming basic nature of ethanol
- (d) Ethanol decolorizes litmus through bleaching action

91. Which one of the following metal is NOT an essential component in stainless steel ?

- (a) Iron
- (b) Nickel
- (c) Chromium
- (d) Tin

92. Match List I with List II and select the correct answer using the code given below the Lists :

List I (Process)	List II (Separation method)
A. Separation of acetone and water from their mixture	1. Chromatography
B. Separation of water and kerosene oil from their mixture	2. Centrifugation
C. Separation of cream from milk	3. Distillation
D. Separation of pigments from plant extract	4. Separating Funnel

Code :

	A	B	C	D
(a)	3	2	4	1
(b)	4	2	1	3
(c)	3	4	2	1
(d)	4	1	2	3

93. Which one of the following is NOT a requirement for photosynthesis ?

- (a) Chlorophyll
- (b) CO₂
- (c) Water
- (d) O₂

94. In flowering plants, DNA content of the parent plant gets halved during

- (a) Seed germination
- (b) Fruit formation
- (c) Flower bud formation
- (d) Pollen formation

95. Which one of the following is the correct sequence during sexual reproduction in Angiosperms ?

- (a) Egg → zygote → embryo → seed
- (b) Embryo → egg → zygote → seed
- (c) Egg → embryo → zygote → seed
- (d) Egg → seed → zygote → embryo

96. Which one of the following combinations of events represents the correct sequence during reproduction in flowering plants ?

- (a) Ovule → fruit; egg → embryo; zygote → seed; ovary → egg
- (b) Embryo → egg; ovary → fruit; ovule → zygote; zygote → seed
- (c) Ovary → fruit; zygote → egg; embryo → ovule; seed → fruit
- (d) Egg → zygote; zygote → embryo; ovule → seed; ovary → fruit

97. The book 'Nation First : The Golden Saga of 82 Years' is the history of which one of the following organizations ?

- (a) Indo-Tibetan Border Police
- (b) Border Security Force
- (c) Central Reserve Police Force
- (d) Central Industrial Security Force

98. Consider the following statements regarding Sanchi and its archaeological findings :

1. When Sanchi was discovered in 1818, three of its four gateways were still standing, the fourth was lying on the spot where it had fallen
2. Animals depicted at Sanchi include elephants, horses, monkeys and cattle

Which of the statements given above is/are correct ?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

99. Which Five Year Plan of India focused on rapid industrialization based growth process ?

- (a) First Five Year Plan
- (b) Second Five Year Plan
- (c) Fifth Five Year Plan
- (d) Seventh Five Year Plan

100. *Chandimangala*, a sixteenth century text, was composed by

- (a) Hema Saraswati
- (b) Madhav Kandali
- (c) Tukaram
- (d) Mukundaram Chakrabarti

101. Consider the following statements regarding the royal center in Vijayanagara Empire :

1. The royal center was located in the south-western part of the settlement
2. It included over 60 temples
3. About 30 building complexes at the site have been identified as palaces

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 1 and 2 only

102. Which one of the following statements is NOT correct ?

- (a) Area wise Madhya Pradesh is the fourth largest state in India
- (b) Hornbill festival is celebrated in Nagaland
- (c) Gujarat state contribute 7.9 per cent share to the National GDP
- (d) Telangana is situated in the Deccan plateau in the central stretch of Indian peninsula

103. Which one of the following soils is ideal for growing cotton ?

- (a) Regur soil
- (b) Laterite soil
- (c) Desert soil
- (d) Mountainous soil

104. Where is Central Institute of Buddhist Studies situated ?

- (a) Leh
- (b) Kullu
- (c) Almora
- (d) Gangtok

105. Consider the following statements about physical features of India :

1. The southern point of the Peninsular Plateau is formed by the Nilgiri Hills where the Eastern and the Western Ghats meet
2. The Cardamom Hills may be regarded as a continuation of the Eastern Ghats

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

106. Which one of the following is the narrow belt parallel to the Shiwalik foothills where streams and rivers coming from the mountains deposit heavy materials of rocks and boulders ?

- (a) Tarai
- (b) Bhangar
- (c) Bhabar
- (d) Khadar

107. Which of the following statements about Suez Canal is/are correct ?

1. Suez is a man-made navigation canal
2. Suez links Mediterranean Sea and the Red Sea
3. The economic significance of Suez Canal is less than that of Panama Canal

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

108. An iron nail sinks in water whereas an iron ship floats. Which of the following statements is correct in this regard ?

1. Average density of ship is greater than that of the water
2. Average density of iron nail is greater than that of the water
3. Average density of the ship is less than that of the water
4. Average density of the ship is equal to that of the water

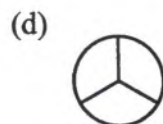
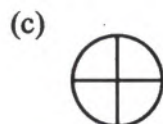
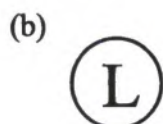
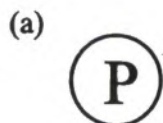
Select the correct answer using the code given below :

- (a) 1 and 2
- (b) 2 and 3
- (c) 2 and 4
- (d) 1 and 4

114. Which among the following is NOT true with respect to colloidal solution ?
- Particles are uniformly distributed throughout the solution
 - Colloidal solution is homogenous in nature
 - They show Tyndal effect
 - They do not settle down when kept undisturbed

115. Kerosene and petrol mixture can be best separated by
- Sublimation
 - Separating funnel
 - Fractional distillation
 - Compressing and cooling

116. As proposed by Dalton, which of the following symbol represents phosphorus ?



117. Which among the following statements with respect to carbon is/are correct ?
- Carbon forms the basis for all living organisms and many things we use
 - Carbon shows tetra-valency and the property of catenation
 - Carbon forms covalent bonds with itself and other elements
 - Carbon forms compounds containing triple and tetra bonds between carbon atoms

Select the correct answer using the code given below :

- 1 only
- 1 and 2 only
- 1, 2 and 3
- 2 and 4

118. Consider the following statements :

- Terracotta models of the plough have been found at sites in Cholistan and at Banawali (Haryana).
- There is evidence of a ploughed field at Kalibangan associated with the mature phase of the Harappan civilization.
- The ploughed field at Kalibangan had two sets of furrows crossing at right angles to each other suggesting two different crops were grown together in it.

Which of the statements given above are correct ?

- 1, 2 and 3
- 2 and 3 only
- 1 and 3 only
- None of the above

119. Which of the following statements about the technological innovations during the Industrial Revolutions are correct ?

1. Mule was the nickname for a machine invented in 1779, that allowed the spinning of strong and fine yarn.
2. Water Frame, invented in 1769 by Richard Arkwright, made it possible to weave pure cotton clothes.
3. Power loom, invented by Edmund Cartwright in 1787, could be used to weave any kind of materials.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 2 and 3 only
- (d) 3 only

120. Who among the following is known as the architect of Indian planning ?

- (a) V.K.R.V. Rao
- (b) Sukhamoy Chakravarty
- (c) P.C. Mahalanobis
- (d) John Mathai

121. Which one of the following Ashokan Minor Rock Edicts, contains the personal name of the king - Ashoka ?

- (a) Maski
- (b) Bahapur
- (c) Bairat
- (d) Sahasram

122. Arrange the following in correct chronological order

1. Charak Samhita
2. Bharat's Natyashastra
3. Sangam Literature
4. Ashtadhyayi

Select the correct answer using the code given below :

- (a) 1 - 3 - 4 - 2
- (b) 2 - 4 - 1 - 3
- (c) 4 - 3 - 1 - 2
- (d) 3 - 1 - 2 - 4

123. Which one of the following is NOT an example of Fold Mountain ?

- (a) Mt. Fuji
- (b) Alps
- (c) Andes
- (d) Rockies

124. Which one of the following is an organic soil ?

- (a) Aridisols
- (b) Histosols
- (c) Oxisols
- (d) Vertisols

125. The North-south and East-west Road Corridors of India cross each other at which of the following cities ?

- (a) Bhopal
- (b) Itarsi
- (c) Gwalior
- (d) Jhansi

126. Which one of the following climatic regions of the world have a typical characteristic of seasonal reversal of wind ?

- (a) British type Climate
- (b) Mediterranean Climate
- (c) China type Climate
- (d) Monsoon Climate

127. Which one of the following statement is NOT correct ?

- (a) Bokaro steel plant is located in Damodar river basin
- (b) Jamshedpur steel plant is located on the confluence of Damodar and Barakar
- (c) Salem steel plant is located on the bank of Kaveri River
- (d) Bhilai steel plant obtains water from Tandula reservoir

128. How many of the following pairs of specialized agriculture and its products are correctly matched ?

- 1. Apiculture : Honey
- 2. Sericulture : Silk
- 3. Silviculture : Forestry
- 4. Viticulture : Grapes

Select the correct answer using the code given below :

- (a) 4
- (b) 3
- (c) 2
- (d) 1

129. Which one of the following crops is generally benefitted by the rain caused by western disturbances in India ?

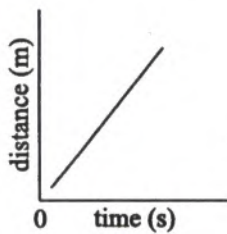
- (a) Rice
- (b) Wheat
- (c) Bajra
- (d) Cotton

130. Which one of the following pairs of city and industry is NOT correctly matched ?

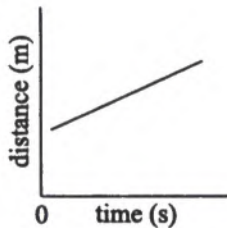
- (a) Saharanpur : Paper industry
- (b) Chanderi : Cotton textile industry
- (c) Bhadohi : Carpet industry
- (d) Raniganj : Iron and steel industry

131. Which one of the following graphs represents the equation of motion $v = u + at$; where all quantities are non-zero and symbols carry their usual meanings ?

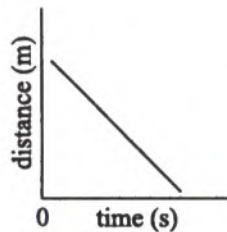
(a)



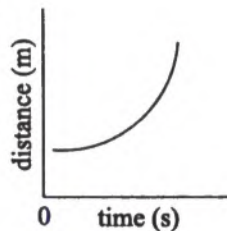
(b)



(c)



(d)



132. Which one of the following statements is true for sound waves propagating in air ?

- (a) Sound is an electromagnetic wave and transverse in nature
- (b) Sound is a mechanical wave and longitudinal in nature

- (c) Sound is a mechanical wave and transverse in nature
- (d) Sound is an electromagnetic wave and longitudinal in nature

133. A 100 g sphere is moving at a speed of 20 m/s and collides with another sphere of mass 50 g. If the second sphere was at rest prior to the collision and the first sphere comes at rest immediately after the collision, considering the collision to be elastic, the speed of the second sphere would be

- (a) 10 m/s
- (b) 20 m/s
- (c) 30 m/s
- (d) 40 m/s

134. Which one of the following optical phenomena supports that the light is a transverse wave ?

- (a) Refraction
- (b) Diffraction
- (c) Interference
- (d) Polarization

135. How many of the following materials can be attracted by a magnet ?

1. Plastic
2. Carbon
3. Aluminium
4. Stainless Steel

Select the correct answer using the code given below :

- (a) 1
- (b) 2
- (c) 3
- (d) None

136. Consider the following statements with reference to the Bhoodan Movement :

1. Vinoba Bhave organized 'The Sarvodaya Samaj' to take up the work of non-violent transformation in India
2. Jayaprakash Narayan withdrew from active politics to join the Bhoodan Movement in 1953
3. In the wake of the Bhoodan Movement the first donation of land was made in the village of Pochampalli in Telangana

How many of the statements given above is/are correct ?

- (a) 1
- (b) 2
- (c) 3
- (d) None

137. Which among the following statements regarding the election of non-permanent members to the United Nations Security Council is/are correct ?

1. Five members coming from Africa and Asia, one from Eastern Europe, two from Latin America and two from Western Europe and other states
2. Six members are elected each year by the General Assembly for two year term

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

138. Which one of the following provisions of the Constitution of India deals with District Planning Committee ?

- (a) 243ZD
- (b) 243ZB
- (c) 243ZE
- (d) 243ZC

139. Consider the following statements about Attorney-General in India :

1. She/he is the first law officer of the Government of India
2. She/he has a right to speak in any House of Parliament without any right to vote
3. She/he is appointed by the President of India
4. She/he is a whole-time counsel for the Government in the court of law

How many of the statements given above is/are correct ?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

140. Which one among the following states was NOT impacted by the Land Boundary Agreement Treaty between India and Bangladesh (2015) ?

- (a) West Bengal
- (b) Assam
- (c) Tripura
- (d) Arunachal Pradesh

141. The 480 MW Phukot Karnali Hydro Electric Project is situated in

- (a) Thailand
- (b) Indonesia
- (c) Nepal
- (d) Bhutan

142. Consider the following statements about a river :

This river originates in the Hindu Kush mountain range and flows into Hamoun wetlands after covering a long stretch of about 1,100 km. There has been serious conflicts between two neighbouring nations regarding the sharing of water from this river. Identify the river from the following :

- (a) Mekong
- (b) Tarim
- (c) Indus
- (d) Helmand

143. Match List I with List II and select the correct answer using the code given below the Lists :

List I (Bilateral Exercise)	List II (Participating Country)
A. Garuda Shakti	1. India and Japan
B. Nomadic Elephant	2. India and Sri Lanka
C. Mitra Shakti	3. India and Mongolia
D. Dharma Guardian	4. India and Indonesia

Code :

	A	B	C	D
(a)	4	2	3	1
(b)	4	3	2	1
(c)	1	3	2	4
(d)	1	2	3	4

144. Consider the following statements about gallantry awards in India :

1. Post-independence, first three gallantry awards were instituted on 26th January, 1950
2. The first three gallantry awards were Ashoka Chakra Class-I, Ashoka Chakra Class-II and Ashoka Chakra Class-III

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

145. Consider the following statements about Centralized Laboratory Network (CLN) :

1. CLN works to test vaccines which can be used during pandemic
2. India is a member of CLN
3. CLN is a part of the Coalition for Epidemic Preparedness Innovations (CEPI)

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

146. Consider the following statements about Kavach, the automatic train protection system :

1. It is designed and developed by Research Design and Standard Organisation (RDSO) in collaboration with Railway Technical Research Institute (RTRI), Japan
2. The trials of Kavach were facilitated by the Southern Railway
3. Kavach is a state-of-the-art electronic system with Safety Integrity Level-4 (SIL-4)

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

147. The Nova Kakhovka dam, which was in news recently, is situated in

- (a) Belarus
- (b) Turkey
- (c) Ukraine
- (d) Poland

148. Aaron Finch, who recently retired from international cricket, was captain of men's cricket team of which one of the following countries ?

- (a) South Africa
- (b) Australia
- (c) England
- (d) New Zealand

149. Which one of the following is the name of the dashboard launched recently by the Reserve Bank of India to assess and monitor the progress of financial inclusion by capturing relevant parameters ?

- (a) *Pragya*
- (b) *Antardrishti*
- (c) *Divyachakshu*
- (d) *Antahgyan*

150. 'Sengol', installed in the new Parliament building of India, was seen as a symbol of the path of service, duty and nation in which Empire of the past ?

- (a) Gupta Empire
- (b) Shunga Empire
- (c) Pandyan Empire
- (d) Chola Empire

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी.बी.सी. : XWLP-U-GAT

परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1001433

परीक्षण पुस्तिका
सामान्य योग्यता परीक्षण



समय : दो घण्टे

पूर्णांक : 300

अ नु दे श

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर और कुछ न लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दो भागों में दिए गए हैं : भाग—A और भाग—B। भाग—B में प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए केवल एक ही प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. सभी प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर केवल उत्तर-पत्रक अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अन्त में संलग्न हैं।
10. गलत उत्तरों के लिए दण्ड :
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए गलत उत्तरों के लिए दण्ड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दण्ड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे गलत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दण्ड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दण्ड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

48. Which one of the following is the aim of 'Operation Sankalp'?

- (a) Providing specialized medical care to the personnel of the armed forces and their families during the COVID-19 pandemic
- (b) Providing escort to the chartered vessels of the UN World Food Programme during the COVID-19 pandemic
- (c) Creating facilities for the indigenous production of 108 items of defence procurement by 2025
- (d) Providing protection to Indian Flag Merchant Vessels in the Gulf of Oman

49. Which of the following statements with regard to the India-US Civilian Nuclear Cooperation Agreement (2008) is/are **not** correct?

1. It provides for the development of a strategic reserve of nuclear fuel for India.
2. It exempts India from the application of IAEA safeguards on the transfer of nuclear materials and equipment.
3. It allows India to reprocess nuclear materials.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 3
- (d) 1 and 2

50. Who among the following personalities contributed to making the language of the Universal Declaration of Human Rights gender-sensitive?

- (a) Vijaya Lakshmi Pandit
- (b) Arcot Ramasamy Mudaliar
- (c) Hansa Mehta
- (d) Aruna Asaf Ali

51. Which one of the following cities has been nominated as the first ever Shanghai Cooperation Organization (SCO) Tourism and Cultural Capital at the 22nd meeting of SCO in Uzbekistan?

- (a) Ahmedabad
- (b) Chengdu
- (c) Varanasi
- (d) Samarkand

52. Which of the following with regard to the consular services provided by the Indian Embassies and Consulates abroad is/are **not** correct?

1. Registering births, deaths and marriages of Indian citizens in accordance with the Indian laws
2. Investigating the death of an Indian national abroad
3. Arranging for licences or work permits for Indian nationals in other countries

Select the correct answer using the code given below.

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 only

53. India Ports Global Ltd. is engaged with the development and operation of

- (a) Khomeini Port
- (b) Bushehr Port
- (c) Chabahar Port
- (d) Bandar Taheri

54. India has been appointed as a 'Lead Country' by BIMSTEC for promoting the priority areas of

- (a) transport and communication, tourism, environment and disaster management, counter terrorism and transnational crime
- (b) energy, climate change, public health and agriculture
- (c) transport and communication, tourism, public health and poverty alleviation
- (d) fisheries, poverty alleviation, climate change and trade

55. Which of the following are the main pillars of further negotiations under the Indo-Pacific Economic Framework for Prosperity?

- (a) Trade, supply chains, clean energy, tax and anticorruption
- (b) Trade, maritime security, supply chains and poverty eradication
- (c) Free trade area, democratization, infrastructure and supply chains
- (d) Peace and stability in the Indo-Pacific region, maritime security, economic growth and infrastructure

56. The key feature of the Basic Exchange and Cooperation Agreement (2020) between India and the United States is

- (a) use of each other's military base and facilities for refuelling and repairs
- (b) exchange of unclassified geospatial products and topographical and aeronautical data
- (c) technology transfer for the manufacture of defence products in India
- (d) providing support through finance and technology for India's Main Battle Tank Force

61. In accordance with the provisions of the General Financial Rules, 2017, which one of the following statements is correct?
- The bidding document should indicate that the resultant contract will be interpreted under the Indian laws.
 - The name of the bidder awarded the contract is required to be displayed only on the notice board of the procuring agency.
 - Nondisclosure of a conflict of interest does not amount to breach of the Code of Integrity.
 - Bidders can be permitted to modify their bids after expiry of the deadline for submission of bids but before these are opened by the procuring agency.
62. As per the General Financial Rules, 2017, surplus goods can be disposed of by obtaining bids through advertised tender or public auction if the assessed residual value of the surplus goods is
- above ₹ 5 lakh
 - above ₹ 2.5 lakh
 - above ₹ 2 lakh
 - above ₹ 1.5 lakh
63. The procurement of goods required on mobilization and/or during continuance of military operations is regulated by which one of the following?
- The Delegation of Financial Powers Rules, 1978
 - The Special Rules and Orders issued by the Government on this behalf from time to time
 - The Defence Procurement Manual, 2009
 - The Defence Acquisition Procedure, 2020
64. The Constitution of India requires all Government contracts to be made by an authority empowered to do so by or under the orders of which of the following?
- The Head of the Office
 - The Secretary of the Department concerned
 - The Minister concerned
 - The President of India
65. A forecasting technique which uses historical data to forecast and is based on the assumption that what happened in the past will happen in the future is called
- qualitative technique of forecasting
 - intrinsic forecasting technique
 - extrinsic forecasting technique
 - trend forecasting technique
66. The old demand forecast for the month of March was 240 and the actual demand for the month of March was 220. If alpha (α) is 0.15, the forecast for the month of April, using exponential smoothening technique of forecasting, will be
- 237
 - 240
 - 217
 - 234
67. Which one of the following is **not** a part of carrying cost of inventory?
- Capital cost
 - Storage cost
 - Risk cost
 - Lost capacity cost

78. Consider the following sum :

$$\textcircled{R} + 1\textcircled{R} + 2\textcircled{R} + \textcircled{R}3 + \textcircled{R}1 = 21\textcircled{R}$$

In the above sum, \textcircled{R} stands for which digit?

- (a) 6
- (b) 7
- (c) 8
- (d) 9

79. Profits are calculated in a company on half-yearly basis. The company made a profit of 10% in the first half. However, it incurred a loss of 3% in the next half. The overall annual profit of the company is approximately

- (a) 9%
- (b) 6%
- (c) 8%
- (d) 7%

80. Which one of the following countries is **not** a member of the Indian Ocean Rim Association?

- (a) Australia
- (b) Egypt
- (c) Somalia
- (d) Singapore

81. Which one of the following points is **not** a part of the 'Panchamrit' (five nectar elements) proposal made by India at the COP26 Conference at Glasgow?

- (a) Reaching 500 GW non-fossil energy capacity by 2030
- (b) Achieving 50 per cent of energy requirements from renewable energy by 2030
- (c) Reduction of total projected carbon emission by one billion tonnes from now to 2030
- (d) Achieving the target of net zero emissions by 2040

82. Which one of the following organizations was launched by the Prime Minister of India during the United Nations Climate Action Summit at New York in 2019?

- (a) The Asia Pacific Adaptation Network
- (b) The International Solar Alliance
- (c) The Coalition for Disaster Resilient Infrastructure
- (d) The International Renewable Energy Agency

83. Which one of the following International Conventions has **not** been ratified by India?

- (a) The Chemical Weapons Convention
- (b) The Biological and Toxin Weapons Convention
- (c) The United Nations Watercourses Convention
- (d) The United Nations Convention against Corruption

84. Which one of the following trains connects India with Bangladesh?

- (a) Meghna Express
- (b) Farakka Express
- (c) Padma Express
- (d) Bandhan Express

85. The SVAMITVA scheme is aimed at achieving which of the following objectives?

1. Creation of accurate land records for rural planning and to reduce property-related disputes
2. Transfer of unused Government land to landless farmers
3. To support in preparation of better quality Gram Panchayat Development Plan by making use of GIS maps

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 1 and 3
- (c) 1 only
- (d) 2 only

86. Which of the following statements with regard to access to the data better than 1 m resolution under Remote Sensing Data Policy (RSDP) of the Government of India is/are correct?

1. All Government users in India can obtain the data without any further clearance.
2. All private users require a clearance from interagency High Resolution Image Clearance Committee for obtaining the data.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

87. Identify the place where the first gift of land was made in the Bhoodan Movement.

- (a) Pavner
- (b) Pochampalli
- (c) Guntur
- (d) Nellore

88. *Aranyer Adhikar*, a Bengali novel written by Mahasweta Devi, depicts the life and struggles of

- (a) Bholenath Sahay
- (b) Bhagirath Majhi
- (c) Birsa Munda
- (d) Rani Gaidinliu

89. Which one of the following former Princely States was **not** part of the Patiala and East Punjab States Union (PEPSU)?
- (a) Jind
(b) Nabha
(c) Kapurthala
(d) Pataudi
90. Who among the following persons was identified by Sardar Vallabhbhai Patel to help organize a cooperative milk union of the farmers of the Kheda district?
- (a) Morarji Desai
(b) Bhulabhai Desai
(c) Jivraj Mehta
(d) Balwantrai Mehta
91. Which one of the following statements in relation to a Government contract is **not** correct?
- (a) It shall be executed on behalf of the President.
(b) The words 'for and on behalf of the President of India' should follow the designation appended below the signature of the officer signing the contract.
(c) Any Gazetted Officer can sign the contract.
(d) Like Government contracts, assurances of property are also executed on behalf of the President.
92. Which one of the following statements is correct?
- (a) Cost Plus contracts have been banned by the Government of India.
(b) Contract documents should ordinarily be executed within 30 days of issuing the Letter of Acceptance.
(c) Whenever possible, only Lump Sum contracts should be signed.
(d) Normally, all contracts shall contain a provision for recovery of liquidated damages for defaults on the part of the contractor.
93. According to the provisions of the General Financial Rules, 2017, after which of the following time limits a contractor's monetary claim against a Government department would lapse?
- (a) Three years from completion of all warranty obligations
(b) Three years from the time the claim arises
(c) One year from the time the claim arises
(d) The mutually agreed to and provided for in the contract
94. As per the provisions of the General Financial Rules, 2017, the Price Variation Clause can be included in Government contracts only if the delivery period extends beyond
- (a) 24 months
(b) 18 months
(c) 12 months
(d) 9 months

109. The wholesale price in the year 2015 is what per cent of that in the year 2011?

- (a) 225.6
- (b) 238.4
- (c) 242.7
- (d) 255.5

110. What is the percentage increase in the value of the wholesale price in 2015 as compared to 2010?

- (a) 360
- (b) 350
- (c) 340
- (d) 330

111. In November 2022, which one of the following countries announced the end of decade-long Operation Barkhane in Africa?

- (a) Canada
- (b) France
- (c) Russia
- (d) The USA

112. Which one of the following festivals is also known as the '100 drums festival'?

- (a) Sarhul Festival (Jharkhand)
- (b) Kut Festival (Manipur)
- (c) Lokrang Festival (Madhya Pradesh)
- (d) Wangala Festival (Meghalaya)

113. Which of the following statements about the Global Innovation Index, 2022 issued by the World Intellectual Property Organization is/are correct?

1. India is ranked among the top 10 countries.
2. India achieved a huge leap of 41 places in 7 years.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

114. Who among the following was chosen for the Major Dhyan Chand Khel Ratna Award for the year 2022?

- (a) Nikhat Zareen
- (b) Lakshya Sen
- (c) Achanta Sharath Kamal
- (d) Seema Punia

115. Consider the following statements :

1. Justice Harilal Jekisundas Kania was the first Chief Justice of India.
2. Justice Y. V. Chandrachud is the 50th Chief Justice of India.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

116. The Nobel Prize in Medicine in 2022 was awarded for research in the field of

- (a) genomes of extinct hominins and human evolution
- (b) hepatitis C virus
- (c) cancer therapy
- (d) circadian rhythm

117. Which of the following is a prestigious award presented every year by the Council of Scientific and Industrial Research (CSIR) to recognize outstanding contribution in science and technology?

- (a) D. S. Kothari Memorial Award
- (b) National Bioscience Award
- (c) Asutosh Mookerjee Memorial Award
- (d) Shanti Swarup Bhatnagar Award

118. Consider the following statements about Rishi Sunak, the Prime Minister of the UK :

1. He has previously held the office of the Chancellor of the Exchequer.
2. He was an elected Member of the Parliament for Richmond (Yorks).

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

119. Which of the following statements about G20 Summit, 2022 is/are correct?

1. This Summit was held in Bali, Indonesia.
2. Russia-Ukraine War was one of the major issues discussed in the Summit.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

120. 'Hayya Hayya', which means better together, was the official sound track of

- (a) Olympics, 2022
- (b) Asian Games, 2022
- (c) FIFA World Cup, 2022
- (d) ICC T20 World Cup, 2022

टी. बी. सी. : KLOS-T-GAT



परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1009517

परीक्षण पुस्तिका
सामान्य योग्यता परीक्षण



समय : दो घण्टे

पूर्णांक : 300

अनुदेश

- परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पडताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
- कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को, ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
- इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
- इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दिए गए हैं। प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
- आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
- सभी** प्रश्नांशों के अंक समान हैं।
- इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
- आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
- कच्चे काम के लिए पत्रक परीक्षण पुस्तिका के अंत में संलग्न हैं।
- गलत उत्तरों के लिए दंड :**
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए गलत उत्तरों के लिए दंड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का **एक-तिहाई** दंड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे **गलत उत्तर** माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दंड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

1. The definition of "building or other construction work" provided in the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 is **not** applicable to which of the following building or other construction works ?
1. In relation to Railways
 2. In relation to overseas communication
 3. In which the provisions of Factories Act, 1948 apply
 4. In which the provisions of the Mines Act, 1952 apply
- Select the correct answer using the code given below :
- (a) 1, 3 and 4
 - (b) 3 and 4 only
 - (c) 2 and 3 only
 - (d) 4 only
2. Under the provisions of the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996, every employer shall constitute a Safety Committee in every establishment wherein :
- (a) five hundred or more building workers are ordinarily employed.
 - (b) three hundred or more building workers are ordinarily employed.
 - (c) two hundred and fifty building workers are ordinarily employed.
 - (d) one hundred or more building workers are ordinarily employed.
3. A building worker registered as a beneficiary under the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 shall contribute to the Building and Other Construction Workers' Welfare Fund until he attains the age of :
- (a) Fifty years
 - (b) Fifty-five years
 - (c) Sixty years
 - (d) Sixty-two years
4. Which among the following is **not** an industry under Section 2(j) of the Industrial Disputes Act, 1947 ?
- (a) ONGC
 - (b) University of Delhi
 - (c) Doordarshan
 - (d) Physical Research Laboratory
5. Which one of the following statements with regard to the Industrial Employment (Standing Orders) Act, 1946 is **not** correct ?
- (a) Right of an employer to suspend his employee is a managerial prerogative.
 - (b) Order of suspension does not automatically put to an end the employer-employee relationship.
 - (c) Payment of subsistence allowance during disciplinary proceedings is purely discretionary for the employer.
 - (d) Payment of subsistence allowance during disciplinary proceedings is obligatory to enable an employee to prepare his defense and for his wherewithal.
6. Section 11A was inserted in the Industrial Disputes Act, 1947 to implement :
- (a) ILO recommendation No. 80.
 - (b) ILO recommendation No. 111.
 - (c) ILO recommendation No. 119.
 - (d) ILO recommendation No. 128.
7. Which of the following are **not per se** 'Industrial Dispute' under the Industrial Disputes Act, 1947 ?
1. Suspension of a workman by the employer
 2. Withholding of increment of a workman by the management as a punishment
 3. Retrenchment of an individual workman
 4. Termination of the services of a junior doctor in a Government hospital
- Select the correct answer using the code given below :
- (a) 3 and 4 only
 - (b) 1, 2 and 4
 - (c) 1 and 2 only
 - (d) 1, 2 and 3

14. Who among the following category of employees are **not** entitled to form trade unions and get the same registered under the Trade Unions Act, 1926 ?
- Teachers employed in Government-run schools
 - Supervisory staff drawing salary of ₹ 35,000 per month in the Ministry of Railways
 - Clerical staff employed in the district courts in Delhi
 - Peons employed in the Ministry of Civil Aviation
15. Not less than how many of the total number of the office-bearers of every registered trade union in an unorganized sector shall be persons actually engaged or employed in an industry with which the trade union is connected ?
- One-fifth
 - One-fourth
 - One-third
 - One-half
16. 'X' and 'Y' are two registered trade unions of workers in MB Cotton Mills. 'X' and 'Y' have membership of 150 and 120, respectively. Both the trade unions want to amalgamate as one trade union – 'XY'. In 'X', 110 members cast their votes and in 'Y', 70 members cast their votes to decide for or against the amalgamation. What is the minimum of the votes recorded, that is required to decide in favour of amalgamation ?
- 90
 - 100
 - 108
 - 135
17. If the membership of a registered Trade Union in a financial year did **not** exceed 250, annual audit of the accounts of the trade union may be conducted by how many members of the Union ?
- One
 - Two
 - Three
 - Four
18. Certified Standing Orders **cannot** be modified, except on agreement between the employer and the workmen, until the expiry of how much time from the date on which standing orders came into operation ?
- 2 months
 - 3 months
 - 6 months
 - 12 months
19. Scooters India is an establishment covered by the Industrial Employment (Standing Orders) Act, 1946. R is a workman of the establishment. He is suspended by the employer, pending investigation into complaints of misconduct against him. The employer has to pay him subsistence allowance for first ninety days of suspension at the rate of :
- 20% of the wages
 - 25% of the wages
 - 50% of the wages
 - 75% of the wages
20. Questions pertaining to application or interpretation of a standing order certified under the Industrial Employment (Standing Orders) Act, 1946 may be referred to :
- Certifying Officer
 - Labour Court
 - Industrial Tribunal
 - Appropriate Government

27. Under the Payment of Wages Act, 1936, which one of the following is **not** a ground on which deductions can be made from wages payable ?
- House accommodation supplied by the employer or any Government authority or any housing board set up under any law in force
 - Absence from duty
 - Bonus paid under the Payment of Bonus Act, 1965
 - Damage to, or loss of, goods which are expressly entrusted to the employed person for custody
28. Which one of the following statements with regard to 'Inspectors' under Section 14 of the Payment of Wages Act, 1936, is **not** correct?
- Inspectors appointed under the Payment of Wages Act, 1936 are not 'public servants' as defined under the Indian Penal Code, 1860.
 - An Inspector of Factories appointed under the Factories Act, 1948 shall be an inspector for the purposes of the Payment of Wages Act, 1936.
 - The appropriate Government may appoint Inspectors for the purposes of the Payment of Wages Act, 1936 in respect of all persons employed upon a railway (otherwise than in a factory) to whom the Payment of Wages Act, 1936 applies.
 - The appropriate Government may, by notification in the Official Gazette, appoint such other persons as it thinks fit to be Inspectors for the purposes of the Payment of Wages Act, 1936.
29. Under the Payment of Wages Act, 1936, the rule-making power of the appropriate Government vests under :
- Section 26(1)
 - Section 25A
 - Section 22
 - Section 16
30. Which of the following statements in case of death of the employed person, under the Payment of Wages Act, 1936 is/are correct ?
- The balance of wages payable is to be paid to the person nominated by the employed person in this behalf in accordance with the rules made under the Act.
 - Where no such nomination has been made or where for any reasons, such amounts cannot be paid to the person so nominated, the amount payable has to be deposited with the prescribed authority.
 - Once the balance of wages payable is deposited by the employer with the prescribed authority, the employer shall be discharged of his liability to pay those wages.
- Select the correct answer using the code given below :
- 1 only
 - 1 and 2 only
 - 2 and 3 only
 - 1, 2 and 3
31. The minimum rate of wages fixed by the appropriate Government in respect of the scheduled employment under the Minimum Wages Act, 1948 does **not** include :
- A basic rate of wages with or without the cost of living allowance.
 - A basic rate of wages and a special allowance at a rate to be adjusted to accord as nearly as practicable with the variation in the cost of living index.
 - An all-inclusive rate allowing for the basic rate, the cost of living allowance and cash value of the concessions, if any.
 - A basic rate of wages, including the house rent allowance to be adjusted with the variation in the cost of living index.
32. In fixing or revising the minimum rate of wages under Section 3 of the Minimum Wages Act, 1948, different minimum rate of wages **cannot** be fixed for :
- different localities.
 - adults, adolescents, children and apprentices.
 - male and female workers.
 - different scheduled employments.

33. Which one of the following statements with respect to the payment of 'wages in kind' under the Minimum Wages Act, 1948 is **not** correct ?
- Where it has been the custom to pay wages wholly or partly in kind, the appropriate Government may, by notification in the Official Gazette, authorize the payment of minimum wages either wholly or partly in kind.
 - If the appropriate Government is of the opinion that provision should be made for the supply of essential commodities at concessional rates, it may, by notification in the Official Gazette, authorize the provision of such supplies at concessional rates.
 - The cash value of wages in kind and of concessions in respect of supplies of essential commodities shall be estimated in the manner prescribed by the Act.
 - Minimum wages may be payable either in kind or in the form of an 'essential commodity' which can be made convertible on pro rata basis.
34. Which one of the following statements is **not** correct with regard to fixing the number of hours for a normal working day under the Minimum Wages Act, 1948 ?
- Fixation of the number of hours of work which shall constitute a normal working day, inclusive of one or more specified intervals
 - Provision for a day of rest in every period of seven days for all employees or any specified class of employees
 - Provision for grant of payment for work on a day of rest at a rate which is not less than the overtime rate
 - Fixation of the number of hours of work which shall not exceed eight hours a day inclusive of one or more specified intervals
35. The appropriate Government, under the Minimum Wages Act, 1948, may **not** fix :
- a minimum time rate.
 - a minimum piece rate.
 - a guaranteed time rate.
 - a guaranteed overtime rate.
36. Under Section 16 of the Minimum Wages Act, 1948, where an employee does two or more classes of work for each of which a different minimum rate of wage applies, he shall be paid :
- rate of wage whichever is higher.
 - rate of wage as may be prescribed by the appropriate Government.
 - rate of wages as fixed by the employer under the Industrial Employment (Standing Orders) Act, 1946.
 - rate of wages in respect of the time respectively occupied in each such class of work, wages at not less than the minimum rate in force in respect of each such class.
37. Under which one of the following situations will the employer be exempted from criminal liability for non-payment of wages under the Minimum Wages Act, 1948 ?
- That he has contravened Section 11 of the Act and paid wages in kind for articles which are essential commodities
 - That he has contravened the provision of Section 3(2) of the Minimum Wages Act, 1948
 - That he has contravened the provisions of Section 3(3) of the Minimum Wages Act, 1948
 - That another person has committed the offence without his knowledge, consent or connivance

38. Under Section 3(3) of the Minimum Wages Act, 1948, wages may **not** be fixed in which one of the following wage periods ?
- By the hour
 - By the day
 - By the week
 - By the month
39. For the purposes of the Building and Other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996, there shall be levied and collected a Cess at such rate of the cost of construction incurred by an employer **not** exceeding :
- four percent
 - six percent
 - two percent
 - one percent
40. Who can exempt any employer or class of employers in a State from the payment of Cess payable under the Building and Other Construction Workers' Welfare Cess Act, 1996, where such Cess is already levied and payable under any corresponding law in force in the State ?
- President of India
 - Government of the State
 - Central Government
 - State Government
41. After the receipt of any appeal under Section 11(1) under the Building and Other Construction Workers' Welfare Cess Act, 1996, the appellate authority shall dispose of the appeal within :
- sixty days.
 - ninety days.
 - one hundred and twenty days.
 - such time as the appellate authority can do as expeditiously as possible.
42. Whoever, being liable to pay Cess under the Building and Other Construction Workers' Welfare Cess Act, 1996, wilfully evades or attempts to evade the payment of such Cess shall be punishable with :
- imprisonment which may extend to one month or with fine or both.
 - imprisonment which may extend to six months or with fine or both.
 - imprisonment which may extend to one year or with fine up to maximum ₹ 2,000 or both.
 - imprisonment which may extend to one year or with fine up to maximum ₹ 1,000 or both.
43. 'A', while travelling in a State Transport Corporation bus from his residence to the place of his work meets with an accident in the depot of the said State Transport Corporation as a result of which he dies. The accident takes place at 8:00 am and his shift was to start at 10:00 am His dependents claim compensation under the Employees' Compensation Act, 1923. Are they entitled to get compensation ?
- They will not be entitled to any compensation as the shift was to start at 10:00 am.
 - They would be entitled to compensation.
 - They would have been entitled to the compensation had the accident taken place in the premises of the employer during hours of his employment.
 - They would have been entitled had the accident occurred because of the hazards attached to the job of the deceased.

44. Which of the following statements as per the Employees' Compensation Act, 1923 are correct ?
1. The Act applies to certain classes of employers.
 2. The employee must be employed in any of the occupations specified in Schedule II of the Act.
 3. The Central Government or the State Government may add any class of persons employed in any occupation to Schedule II.
 4. The Act lays down time limit of six months for disposal of the claim of compensation from the date of reference.
- Select the correct answer using the code given below :
- (a) 1, 3 and 4
 - (b) 1, 2 and 4
 - (c) 1, 2 and 3
 - (d) 2 and 3 only
45. In which of the following circumstances shall an employer be held liable for compensation to the employee under the provisions of the Employees' Compensation Act, 1923 ?
1. Any injury which does not result in the total or partial disablement exceeding two days.
 2. Any injury (not resulting in death or permanent total disablement) caused by an accident which is directly attributable to the employee, having been at the time thereof, under the influence of drink or drugs.
 3. Any injury (not resulting in death or permanent total disablement) caused due to the wilful disobedience of the employee to a rule expressly framed, or an order expressly given, for the purpose of securing the safety of employees.
 4. If the employer proves that the accident is due to wilful removal or disregard by the employee of any safety guard or other device which he knew to have been provided for the purpose of securing security of employee.
- Select the correct answer using the code given below :
- (a) 1, 2, 3 and 4
 - (b) 2, 3 and 4 only
 - (c) 3 and 4 only
 - (d) 1 and 2 only
46. In which one among the following cases, the Supreme Court observed that the gratuity is no longer in the realm of charity but a statutory right provided in favour of employee ?
- (a) State of Kerala v. M. Padmanabhan Nair (1985)
 - (b) Beed District Central Co-operative Bank Ltd. v. State of Maharashtra (2006)
 - (c) T.I. Cycles of India, Ambattur v. M.K. Gurumani (2001)
 - (d) Union of India v. All India Services Pensioners Association (1988)
47. Section 7 of the Payment of Gratuity Act, 1972 provides :
- (a) exemption to employer from liability in certain cases.
 - (b) for recovery of gratuity.
 - (c) procedure for determination of the amount of gratuity.
 - (d) for protection of gratuity.
48. Under the Payment of Gratuity Act, 1972, if an employee has a family at the time of making a nomination, the nomination shall be made in favour of one or more members of her/his family, and any nomination made by such employee in favour of a person who is **not** a member of his family, shall be :
- (a) valid.
 - (b) voidable.
 - (c) void.
 - (d) permissible on submitting an affidavit by the employee.

49. Under the Maternity Benefit Act, 1961, if a woman dies before receiving maternity benefit amount, the same shall be paid to :

1. the State.
2. the person nominated by the woman in the notice under Section 6 of the Act.
3. her legal representative, if she has not nominated a nominee.
4. the person nominated by the woman in the notice under Section 6 as well as to her legal representative equally.

Select the correct answer using the code given below :

- (a) 2 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 4

50. Section 25 of the Maternity Benefit Act, 1961 authorises :

1. State Government to give directions to Inspectors regarding the carrying into execution of its provisions.
2. Central Government to give directions to a State Government regarding the carrying into execution of its provisions.
3. Inspectors to give directions to the employers regarding the carrying into execution of its provisions.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) 1 and 2 only
- (d) 2 and 3 only

51. For which one of the following matters under the Unorganised Workers' Social Security Act, 2008, it is **not** mandatory for the Central Government to formulate and notify suitable welfare schemes for unorganised workers ?

- (a) Life and disability cover
- (b) Health and maternity benefit
- (c) Employment injury benefit
- (d) Old age protection

52. Any scheme notified by a State Government under the Unorganised Workers' Social Security Act, 2008 may be funded :

1. wholly by the State Government.
2. partly through contribution collected from beneficiaries.
3. by financial assistance from the Central Government.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 3 only

53. As per the Unorganised Workers' Social Security Act, 2008 'Unorganised Worker' includes a worker in the organized sector who is **not** covered by :

- (a) The Industrial Disputes Act, 1947.
- (b) The Contract Labour (Regulation and Abolition) Act, 1970.
- (c) The Employees' State Insurance Act, 1948.
- (d) The Payment of Gratuity Act, 1972.

54. As per Section 11 of the Unorganised Workers' Social Security Act, 2008, the Central Government, in respect of matters relating to the implementation of the provisions of the Act, **cannot** give directions to :
- National Social Security Board.
 - State Social Security Board.
 - the Government of a State.
 - Local bodies.
55. Which one of the following is **not** considered a Central Government's welfare scheme under the Unorganised Workers' Social Security Act, 2008 ?
- Janani Suraksha Yojana
 - Aam Aadmi Bima Yojana
 - Ayushman Bharat Yojana
 - Rashtriya Swasthya Bima Yojana
56. Every employee shall be entitled to be paid bonus by his employer in an accounting year, in accordance with the provisions of the Payment of Bonus Act, 1965, provided he has worked in the establishment for **not** less than :
- thirty working days.
 - sixty working days.
 - one hundred working days.
 - one hundred and twenty days.
57. An employee shall be disqualified from receiving bonus, if he is dismissed from service for :
- participation in an illegal strike.
 - participation in a go-slow strike.
 - fraud.
 - absenting from duty on account of continued ill-health.
58. Section 25 of the Payment of Bonus Act, 1965, deals with :
- eligibility for bonus.
 - recovery of bonus due from an employer.
 - audit of accounts of employers, not being corporations or companies.
 - set on and set off of allocable surplus.
59. If a person contravenes any of the provisions of the Payment of Bonus Act, 1965 or any rule made thereunder or to whom a direction is given or a requisition is made under the Act fails to comply with the direction or requisition shall be punishable with :
- imprisonment for a term which may extend to six months.
 - imprisonment for a minimum term of three months extendable up to 3 years or with a fine of up to ₹ 1,000 or both.
 - imprisonment for a term of one month or with a fine or both.
 - imprisonment for a term which may extend to six months or with a fine which may extend to ₹ 1,000 or with both.
60. Which one of the following charges is **not** deductible under Section 5 of the Payment of Bonus Act, 1965 for the purpose of determining "available surplus" ?
- Depreciation admissible under the Income Tax Act, 1961
 - Development rebate which the employer is entitled to deduct
 - Direct tax payable by the employer
 - Deduction not mentioned in Section 7 of the Payment of Bonus Act, 1965 in the payment of any direct tax allowed under any law for the development of any industry

61. Excess allocable surplus that remains after paying the maximum bonus of 20% of the total salary or wages in an accounting year shall be carried forward to the succeeding accounting year for payment of bonus in case of shortage of the allocable surplus or losses occurring in the succeeding accounting year as per Section 15(1) of the Payment of Bonus Act, 1965. This is known as :
- Carry on
 - Set on
 - Carry off
 - Set off
62. Where in any accounting year, an employer has paid customary bonus to an employee :
- he shall be entitled to deduct the amount of bonus so paid from the amount of statutory bonus payable to the employee under the Payment of Bonus Act, 1965.
 - he cannot deduct the amount of bonus so paid from the amount of statutory bonus payable to the employee under the Payment of Bonus Act, 1965.
 - the management is absolved of its liability to pay customary bonus in the next accounting year.
 - the management is absolved of its liability to pay bonus under the Payment of Bonus Act, 1965 in the next accounting year.
63. Under the Factories Act, 1948, a person is an 'adolescent' on attaining the age of :
- 14 years but has not completed 18 years of age.
 - 15 years but has not completed 18 years of age.
 - 15 years.
 - 14 years but has not completed 21 years of age.
64. Under the Factories Act, 1948, 'factory' means any premises whereon :
- ten or more workers are/were working on any day of the preceding 12 months, in any premise where manufacturing process is being carried on with the aid of power.
 - twenty or more workers are/were working on any day of the preceding 12 months, in any premise where manufacturing process is being carried on without the aid of power.
- Select the correct answer using the code given below :
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
65. Which among the following is/are general duty/duties of an 'occupier' under Section 7A(2) of the Factories Act, 1948 ?
- Maintenance of all places of work in the factory in a condition that is safe to the health of the workers.
 - Ensuring safety in connection with use, handling, storage and transport of articles and substances.
- Select the correct answer using the code given below :
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
66. Which one among the following aspects is *not* covered in "Health" under the Factories Act, 1948 ?
- Maintaining clean and hygienic condition of spittoons
 - Sweepers to be employed to clean latrines, urinals and washing places
 - Maintaining temperature as will secure to workers reasonable conditions of comfort
 - Providing facilities for overnight accommodation in factories employing more than 500 workers

67. Which of the following provisions regarding 'fencing of machinery' is/are provided by the Factories Act, 1948 ?

1. Every moving part, whether prime mover or fly wheel connected to the prime mover, shall be securely fenced.
2. Headrace and tailrace of every water wheel and water turbine shall be securely fenced.
3. Lubricated belts of machinery shall be compulsorily fenced.
4. Any part of a stock-bar which projects beyond the head stock of a lathe shall be compulsorily fenced.

Select the correct answer using the code given below :

- (a) 2 only
- (b) 1 and 4 only
- (c) 2 and 3 only
- (d) 1, 2 and 4

68. Which of the following provisions, relating to the measures to be taken to prevent explosion in a factory engaged in a manufacturing process which produces dust, gas, fumes, etc. and is likely to explode on ignition, is/are provided in the Factories Act, 1948 ?

1. Effective enclosure of plant and machinery used in the process
2. Ensure accumulation of the dust at one corner
3. Exclusion or effective enclosure of all possible sources of ignition
4. Ensure that the gas is not foul smelling

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) 2, 3 and 4

69. Which one of the following statements relating to the Factories Act, 1948 is **not** correct ?

- (a) Creche should be provided in a factory employing ordinarily more than thirty women.
- (b) Creche can be used by all children.
- (c) Every factory employing ordinarily five hundred or more workers should employ prescribed number of welfare officers.
- (d) Adult means a person who has completed 18 years of age.

70. Mr. X, who is an 'occupier' of a factory employing 20 workers, asked the employees to work from 9:00 am to 6:30 pm with a half-an-hour break in between. The workers are given Sunday as weekly holiday. Is this scheme permissible under the Factories Act, 1948 ?

- (a) Yes
- (b) Yes, if workers are given extra incentive
- (c) Yes, subject to approval of the Chief Inspector in a specified situation and also to the limit prescribed under Section 51 of the Act
- (d) Yes, but only for male workers

71. Under Section 57 of the Factories Act, 1948, where a worker in a factory works on a shift which extends beyond midnight, the following day for the worker shall be deemed to be a period of 24 hours beginning :
- when the shift ends.
 - when the shift begins.
 - at 6:00 am the following morning.
 - from the official time of the following day.
72. As per the Factories Act, 1948, all inside walls, ceilings, staircases, etc. of the factory shall be re-painted or re-varnished otherwise than with washable water paints :
- at least once in every 2 years.
 - at least once in every 3 years.
 - at least once in every 5 years.
 - as and when the colour of the premises gets faded.
73. How many workers are required to be ordinarily employed in the factory for the provision of canteen facility under the Factories Act, 1948 ?
- More than 100 workers
 - More than 200 workers
 - More than 250 workers
 - More than 300 workers
74. Which one among the following was the first Federation of Trade Unions in India ?
- Textile Labour Association
 - Indian National Trade Union Congress
 - All India Trade Union Congress
 - Hind Mazdoor Sabha
75. Who introduced a private member Bill in 1928 in Legislative Assembly to amend Trade Unions Act, 1926 for extending the immunities to all trade unions, whether registered or not ?
- B.P. Wadia
 - N.M. Joshi
 - Motilal Nehru
 - M.N. Roy
76. Which among the following was **not** a recommendation made by the Royal Commission on Labour ?
- Employer should recognize trade unions.
 - Government should take the lead, in the case of their industrial employees, in making recognition of unions easy and in encouraging them to secure registration.
 - Union leaders should endeavour to give as many members as possible some share in the work of the union and to find suitable men within the union to act as officers and train them for such a position.
 - Trade union should be precluded from initiating and conducting credit or supply societies.
77. The first National Labour Commission was chaired by :
- Justice J.C. Shah
 - Justice Vivian Bose
 - Justice Ravindra Varma
 - Justice P.B. Gajendragadkar

78. Who among the following was the first President of All India Trade Union Congress ?

- (a) Diwan Chaman Lal
- (b) Lala Lajpat Rai
- (c) M.N. Roy
- (d) Jawaharlal Nehru

79. An inter-state migrant workman is entitled to which of the following under the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979 ?

- 1. Journey allowance to and from his residence and place of work
- 2. Displacement allowance
- 3. Wages during the period of such journeys as if he were on duty
- 4. Money for food during such journey

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1, 3 and 4
- (c) 2 and 3 only
- (d) 1, 2 and 3

80. Who is responsible for providing the facilities specified in Section 16 of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979, to an inter-state migrant workman, if the same has **not** been provided by the contractor ?

- (a) Occupier
- (b) Appropriate Government
- (c) Agent who had recruited the workman
- (d) Principal employer

81. Which one among the following cases deals with the issue of inter-state migrant workers ?

- (a) Labourers working on Salal Hydro Projects v. State of Jammu & Kashmir (1984) 3 SCC 538
- (b) People's Union for Democratic Rights v. Union of India, AIR 1982 SC 1473
- (c) Dharangadhra Chemical Works Ltd. v. State of Saurashtra, AIR 1957 SC 264
- (d) Workmen of Dimakuchi Tea Estate v. Management of Dimakuchi Tea Estate, AIR 1958 SC 353

82. Match List I with List II and select the correct answer using the code given below the Lists :

List I
(Case)

List II
(Related proposition)

- | | |
|--|---|
| A. Pradeep Kumar Biswas v. Indian Institute of Chemical Biology (2002) 5 SCC 111 | 1. Articles 14, 21 and the Maternity Benefit Act, 1961 |
| B. Manisha Priyadarshini v. Aurobindo College-Evening, LPA 595/2019 | 2. Article 24, the Minimum Wages Act, 1948 |
| C. People's Union for Democratic Rights v. Union of India, AIR 1982 SC 1473 | 3. Article 12 |
| D. State of Gujarat v. Sri Ambika Mills (1974) 4 SCC 656 | 4. Unpaid accumulation under the Bombay Labour Welfare Fund Act, 1953 |

Code :

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 3 | 2 | 1 | 4 |
| (b) | 4 | 1 | 2 | 3 |
| (c) | 3 | 1 | 2 | 4 |
| (d) | 4 | 2 | 1 | 3 |

83. Which one among the following provisions relating to welfare is **not** provided under Part IV of the Constitution of India ?
- Maternity relief
 - Equal pay for equal work
 - Right to form trade unions
 - Living wage for workers
84. The concept of “equal pay for equal work” under Article 39(d) of the Constitution of India applies to :
- Persons possessing similar qualifications only
 - Persons appointed to the same post
 - All men and women
 - All persons appointed on permanent basis only
85. Which one among the following provisions do **not** find mention in the Constitution of India ?
- Men and women equally have the right to an adequate means of livelihood
 - Every worker must be given a minimum of 8 days paid leave in a year
 - Children and youth are protected against exploitation
 - None can be forced to do *begar*
86. The State, under Part IV of the Constitution of India, is required to secure :
- Fair wage to workers by law
 - Living wage to all workers
 - Living wage to all workers in the industrial sector only
 - Living wage only to workers in the organised sector
87. The provision of ‘just and humane conditions of work’, envisaged under the Constitution of India, has been reflected in which one among the following statutes ?
- The Payment of Wages Act, 1936
 - The Employees Compensation Act, 1923
 - The Payment of Gratuity Act, 1972
 - The Factories Act, 1948
88. People’s Union for Democratic Rights v. Union of India, AIR 1982 SC 1473 dealt with :
- Payment of minimum wages to the workers working in various Commonwealth Games projects
 - Health of workers
 - Payment of minimum wages to the workers working in Asian Games projects
 - Payment of wages to workers in brick kiln industries
89. Which one among the following cases does **not** pertain to Articles 23 and 24 of the Constitution of India ?
- Bangalore Water Supply and Sewerage Board v. A. Rajappa, AIR 1978 SC 548
 - Bandhua Mukti Morcha v. Union of India, AIR 1984 SC 802
 - M.C. Mehta v. State of Tamil Nadu, AIR 1997 SC 699
 - People’s Union for Democratic Rights v. Union of India, AIR 1982 SC 1473
90. Which one among the following cases was filed as a writ petition under Article 32 of the Constitution of India which pertained to the occupational health hazards and diseases to the workmen employed in asbestos industries ?
- A. Sundarambal v. Government of Goa, Daman and Diu, AIR 1988 SC 1700
 - Consumer Education and Research Centre v. Union of India, AIR 1995 SC 922
 - Rohtas Industries Staff Union v. State of Bihar, AIR 1963 Pat 170
 - Workmen of Dimakuchi Tea Estate v. Management of Dimakuchi Tea Estate, AIR 1958 SC 353

91. Which one among the following cases is referred as the 'Sivakasi fire cracker case' ?
- M.C. Mehta v. Union of India, AIR 1988 SC 1037
 - M.C. Mehta v. State of Tamil Nadu, AIR 1983 SC 1055
 - M.C. Mehta v. Union of India, AIR 1987 SC 1086
 - M.C. Mehta v. State of Tamil Nadu, AIR 1997 SC 699
92. Which one among the following provisions of the Constitution of India enables the State to impose compulsory service for public purpose ?
- Article 25(1)
 - Article 24
 - Article 23(1)
 - Article 23(2)
93. Which one among the following propositions was laid down by the Supreme Court in *Randhir Singh v. Union of India*, AIR 1982 SC 879 ?
- Right to assemble peacefully and without arms
 - Equal pay for equal work
 - Responsibility of the State to provide free legal aid
 - Participation of workers in management of industries
94. Which of the following legislations is related to Article 23(1) of the Constitution of India ?
- The Bonded Labour System (Abolition) Act, 1976
 - The Child Labour (Prohibition and Regulation) Act, 1986
 - The Factories Act, 1948
 - The Mines Act, 1952
95. Which one of the following statements is **not** correct with regard to the decision of the Supreme Court in *Employees Provident Fund Organisation v. Sunil Kumar*, SLP (C) Nos. 8658-8659/2019 ?
- All employees who had retired prior to 1st September, 2014 were entitled to the benefit of the decision in the above case.
 - The employees were entitled to the benefit of the above decision if they had retired prior to 1st September, 2014 after exercising option provided in para 11(3) of the pre-amended Employees' Pension Scheme, 1995 as amended by the Central Government.
 - The directions issued in *R.C. Gupta v. Regional Provident Fund Commissioner* (2018) 14 SCC 809 were directed to be complied with by the court in the above case.
 - The Supreme Court held as ultra vires the Employees' Provident Fund and Miscellaneous Provisions Act, 1952, the requirement of the members to contribute at the rate of 1.16 percent of their salary to the extent such salary exceeded ₹ 15,000 per month as additional contribution.
96. On which one among the following subjects, can State Legislatures **not** make law?
- Trade Union
 - Labour Welfare
 - Regulation of labour in mines
 - Social insurance

97. Consider the following statements with reference to the Employees' State Insurance Act, 1948 :

1. No employee can be punished during the period he is entitled to sickness benefit.
2. No person shall be entitled to sickness benefit on any day on which he works or remains on leave or on a holiday in respect of which he receives wages or on any day on which he remains on strike.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

98. Under the Employees' State Insurance Act, 1948, any arrears of amount due from a factory or an establishment may be recovered, from the principal or immediate employer by distraint and sale of its or his movable property in the manner laid down in :

- (a) Second Schedule of the Income Tax Act, 1961
- (b) Third Schedule of the Income Tax Act, 1961
- (c) Fourth Schedule of the Income Tax Act, 1961
- (d) First Schedule of the Income Tax Act, 1961

99. Which one of the following is **not** a benefit under the Employees' State Insurance Act, 1948 ?

- (a) Sickness benefit
- (b) Maternity benefit
- (c) Child education benefit
- (d) Funeral expenses

100. Consider the following statements with reference to the Employees' State Insurance Act, 1948 :

1. The Act applies to all factories.
2. Every factory must be registered.
3. An accident arising in the course of an employee's employment shall always be held to have arisen out of employment.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

101. Alice tells Bob, "I will not come to meet you tomorrow if it rains." Bob replies, "If it rains tomorrow, I will come to meet you at your place."

On the basis of the discussion of Alice and Bob, which of the following statements is/are true ?

1. If it rains tomorrow, Alice and Bob will meet.
2. If it does not rain tomorrow, Alice and Bob will meet.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

102. Which of the following statements is/are necessary and sufficient for a positive real number x to satisfy the inequality :

$$x + \frac{1}{x} \leq 3 ?$$

1. $x^2 + \frac{1}{x^2} \leq 7.$

2. $x \leq \frac{3 + \sqrt{5}}{2}.$

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

103. Mr. Deen Dayal donates ₹ x to the i -th person he meets after he has donated ₹ y to the $(i - 1)$ -th person where x is the largest integer smaller than or equal to $\frac{y}{2}$. He stops after donating ₹ 1 to the last person. If he had ₹ 100 left after donating ₹ 100 to a person, how much money (in ₹) will he have at last ?

- (a) 0
- (b) 1
- (c) 2
- (d) 3

104. A plant grows 20% of its height every year. After how many years will it grow at least twice of its present height for the first time ?
- (a) 3
(b) 4
(c) 5
(d) 6
105. A packet of chewing gum costs ₹ 5 and along with each packet you receive two coupons. Using nine such coupons, you can buy a packet of chewing gum of the same type along with two coupons in it. If you have ₹ 1,000, and you buy maximum number of chewing gum packets, how many coupons will you have unspent ?
- (a) 0
(b) 4
(c) 6
(d) 8
- Directions :** Consider the following for the next three (03) items that follow :
- Expenses of a company on five different heads, namely, raw material, advertisement, transportation, infrastructure and salary to the employees are denoted by u, v, x, y and z when written in the same order. The angles corresponding to u, v, x and y represented on a pie diagram are $30^\circ, 45^\circ, 60^\circ$ and 90° respectively.
106. If the company spent ₹ 55.4 crore on raw material, how much did it spend on infrastructure ?
- (a) ₹ 114.5 crore
(b) ₹ 115.6 crore
(c) ₹ 166.2 crore
(d) ₹ 118.0 crore
107. If the company spent ₹ 465 crore on paying salaries, what was its total expenditure (in ₹ crore) on these five heads ?
- (a) 1080
(b) 1120
(c) 1190
(d) 1240
108. What percentage of its expenses was on advertisement ?
- (a) 16.5%
(b) 15.0%
(c) 12.5%
(d) 10.0%
109. What should come in place of the question mark in the following ?
SCD, TEG, UGJ, ?, WKP
- (a) VIK
(b) VIM
(c) VIN
(d) VJE
110. The number of pair of values of (x, y) for $x \leq y$, where x, y are natural numbers, such that $xy = 14(x + y)$ are :
- (a) 3
(b) 4
(c) 5
(d) 6
111. The Summer Olympics of 2028 will be held at :
- (a) Brisbane
(b) Doha
(c) Los Angeles
(d) Paris

112. Which football team became the champion of the English Premier League in the year 2023 ?
- Arsenal
 - Liverpool
 - Manchester United
 - Manchester City
113. Which one of the following countries conferred its highest civilian honour of the country on the Prime Minister of India in May 2023 ?
- Australia
 - Fiji
 - New Zealand
 - Japan
114. Which Indian sportsperson won gold for India in the Archery World Cup held in Shanghai in the year 2023 ?
- Abhishek Verma
 - Atanu Das
 - Prathamesh Jawkar
 - Neeraj Chauhan
115. What was the name of the search and rescue operation carried out by NDRF in the aftermath of the earthquake in Turkey in February 2023 ?
- Operation Sahayata
 - Operation Sahyog
 - Operation Dost
 - Operation Himmat
116. In April 2023, the Election Commission of India withdrew national party status of which of the following political parties ?
- NCP
 - TMC
 - CPI
 - BSP
- Select the correct answer using the code given below :
- 1, 2 and 3
 - 2 and 3 only
 - 1, 2 and 4
 - 1 and 3 only
117. Who among the following is the Chairperson of the Law Commission of India ?
- Justice (Retd.) Rituraj Awasthi
 - Justice (Retd.) R.M. Chhaya
 - Justice (Retd.) Jaswant Singh
 - Justice (Retd.) Prakash Shrivastava
118. Who heads the Committee constituted to review the National Pension System ?
- T.V. Somanathan
 - Bibek Debroy
 - Amitabh Kant
 - T.K. Viswanathan
119. To improve India's performance at the Olympic Games, the Government of India started TOPS. What does it stand for ?
- Train Olympic Player Scheme
 - Target Olympic Participants Scheme
 - Target Olympic Podium Scheme
 - Train Olympic Podium Scheme
120. Who among the following was **not** one of the gold medalists for India at the IBA Women's World Boxing Championships, 2023 ?
- Nitu Ghanghas
 - Saweety Boora
 - Jamuna Boro
 - Lovlina Borgohain

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T.B.C. : XWLP-T-GLY

Test Booklet Series

Serial No.

1004563

TEST BOOKLET
GEOLOGY



Time Allowed : Two Hours

Maximum Marks : 300

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. *DO NOT* write *anything else* on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
5. You have to mark your responses *ONLY* on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. *All* items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator *only the Answer Sheet*. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. Which one of the following pairs regarding weathering is **not** correctly matched?

- (a) Hydration : Occurs when minerals absorb water molecules
- (b) Oxidation : Occurs when an atom or an ion gains an electron
- (c) Carbonation : Occurs when carbonates are formed
- (d) Chelation : Occurs when metal ion is removed by organic matter

2. The mean age of the oceanic floor is approximately

- (a) 20 Ma
- (b) 60 Ma
- (c) 80 Ma
- (d) 230 Ma

3. According to Airy's hypothesis, if the thickness of crustal column is doubled, the mountain heights may increase approximately by

- (a) 80%
- (b) 40%
- (c) 30%
- (d) 20%

4. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (Volcano type)	<i>List-II</i> (Characteristic)
A. Shield volcano	1. Also known as composite volcano
B. Cinder cone volcano	2. Has shape of a flattened dome
C. Stratovolcano	3. Formed exclusively of pyroclastic materials
D. Lava dome volcano	4. Formed by highly viscous lava

Code :

- (a) A B C D
4 1 3 2
- (b) A B C D
4 3 1 2
- (c) A B C D
2 3 1 4
- (d) A B C D
2 1 3 4

5. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (Bed form in sandy alluvial channel)	<i>List-II</i> (Froude number, F)
A. Dunes with super-imposed ripples	1. $F \ll 1$
B. Washed out dunes	2. $F \geq 1$
C. Plane bed	3. $F \gg 1$
D. Ripples	4. $F \approx 1$

Code :

- (a) A B C D
1 2 4 3
- (b) A B C D
1 4 2 3
- (c) A B C D
3 2 4 1
- (d) A B C D
3 4 2 1

6. Which one of the following pairs is **not** correctly matched?

- (a) Nunatak : Unglaciaded island of bedrock, formerly or currently surrounded by ice
- (b) Cirque : Steep-walled semi-circular basin in mountain glaciers
- (c) Col : Narrow, sharp-edged ridge in mountain glaciers
- (d) Fjord : U-shaped glacial trough below sea level

7. The lateral unsaturated flow of water in the soil zone, where a highly permeable geological unit overlays a less permeable geological unit, is termed as

- (a) overland flow
- (b) saturated overland flow
- (c) sheet flow
- (d) throughflow

8. The void ratio of the solid mass is defined as

- (a) $\frac{\text{Volume of voids}}{\text{Total volume}}$
- (b) $\frac{\text{Volume of voids}}{\text{Volume of solids}}$
- (c) $\frac{\text{Volume of solids}}{\text{Volume of voids}}$
- (d) $\frac{\text{Volume of solids}}{\text{Total volume}}$

9. Which one of the following pairs is **not** correctly matched?

- (a) Annular : Develop on eroded dome in alternate resistant/weak sediments
- (b) Parallel : Develop on horizontal sediments or homogeneous crystalline rocks
- (c) Trellis : Develop on alternating weak and resistant tilted sedimentary rocks
- (d) Discordant : Develop on river channels cut across geological structures

10. Along which of the following plate boundaries, the moving plates grind past each other without producing or destroying lithosphere?

- (a) Diverging plate boundary
- (b) Converging plate boundary only
- (c) Transform fault plate boundary only
- (d) Converging plate boundary and transform fault plate boundary both

11. Stress that is generated due to the weight of the overlying rock column in the earth's crust is referred to as

- (a) confining pressure
- (b) tensile pressure
- (c) lithostatic pressure
- (d) deviatoric pressure

- 12.** The separation of a competent layer due to layer-parallel extension is incomplete and shows a narrowing of the segments. This structure is termed as
- (a) pinch-and-swell structure
 - (b) chocolate-tablet structure
 - (c) extension fracture boudinage
 - (d) tension gash
- 13.** Overfolds have one of the limbs essentially
- (a) horizontal
 - (b) inverted
 - (c) vertical
 - (d) parallel to the other
- 14.** The ocean that gave rise to birth of the Himalayan mountains was
- (a) Indian Ocean
 - (b) Pacific Ocean
 - (c) Tethys Ocean
 - (d) Panthalassa Ocean
- 15.** A continental margin that forms due to initial rifting of a continent to develop an ocean later, is called
- (a) passive margin
 - (b) active margin
 - (c) sutured margin
 - (d) Andean-style margin
- 16.** The deep-focused earthquakes commonly originate along
- (a) mid-oceanic ridge
 - (b) continental rift
 - (c) transform fault
 - (d) Benioff zone
- 17.** A major continent that existed before 90 Ma and comprised present-day N. America, Greenland, Europe and part of Asia is referred to as
- (a) Superia
 - (b) Gondwanaland
 - (c) Laurentia
 - (d) Laurasia
- 18.** The rocks and sediments that were subducting sometimes get attached with overriding plates by thrusting. This process is commonly called
- (a) obduction
 - (b) rejuvenation
 - (c) underplating
 - (d) offscraping
- 19.** The lithosphere is comprised of
- (a) mantle and outer core
 - (b) mantle and asthenosphere
 - (c) upper mantle and crust
 - (d) continental and oceanic crusts
- 20.** In hexagonal crystals, there is one and only one direction which shows no double refraction of light. This direction is called
- (a) optic axis
 - (b) optic axial plane
 - (c) isogyre
 - (d) optic normal

31. Four three-fold axes, each inclined at $54^{\circ}44'$ to the crystallographic axes, are characteristic symmetry of which one of the following crystal systems?
- Hexagonal
 - Isometric
 - Orthorhombic
 - Triclinic
32. Ca-rich plagioclase breaks down to almost pure albite and epidote during which one of the following deuteric alterations?
- Saussuritization
 - Devitrification
 - Chloritization
 - Uralitization
33. Which one of the following rocks is normally expected to have the highest abundance of incompatible trace elements?
- Basalt
 - Dunite
 - Peridotite
 - Granite
34. Which one of the following magma series is found only in subduction zones?
- Calc-alkaline
 - Tholeiitic
 - Alkaline
 - Komatiite
35. Average continental crust reservoir is represented by which one of the following Rb/Sr values of radiogenic parent-daughter pairs?
- 0.124
 - 0.158
 - 0.182
 - 0.242
36. In a rare earth element (REE) diagram, europium anomaly is seen between which one of the following REE pairs?
- La-Nd
 - Nd-Sm
 - Sm-Gd
 - Gd-Dy
37. Which one of the following symbols denotes the deviation of the Nd-isotopic composition of a rock from that of the chondritic uniform reservoir?
- ω (Omega)
 - ϵ (Epsilon)
 - δ (Delta)
 - υ (Upsilon)
38. In a $^{238}\text{U}/^{206}\text{Pb}$ versus $^{235}\text{U}/^{207}\text{Pb}$ ratio diagram, the locus of points having the same $^{238}\text{U}/^{206}\text{Pb}$ and $^{235}\text{U}/^{207}\text{Pb}$ ages is known as
- mixing line
 - isochron line
 - concordia curve
 - discordia curve

39. In the atomic structure of silicate melts, Ca^{2+} and Mg^{2+} ions are categorized as
- network modifiers
 - network formers
 - bridging atoms
 - non-bridging atoms
40. Which one of the following Mid-Oceanic Ridge Basalts (MORB) is derived from an incompatible element-poor mantle?
- N-MORB
 - P-MORB
 - T-MORB
 - VAB
41. Which one of the following geochemical reservoirs is defined by the Nd-isotopic composition of chondritic meteorites?
- DM
 - BSE
 - PREMA
 - HIMU
42. Which of the following do **not** constitute an equilibrium mineral assemblage in a rock?
- Quartz and orthoclase
 - Forsterite and quartz
 - Hornblende and andesine
 - Labradorite and augite
43. In a wave-dominated coastline, the correct distribution of environment from land to sea is
- shoaling zone–surf zone–breaker zone–swash zone
 - swash zone–shoaling zone–surf zone–breaker zone
 - swash zone–surf zone–breaker zone–shoaling zone
 - surf zone–shoaling zone–swash zone–breaker zone
44. The uppermost part of subaqueous delta that lies at water depth down to 10 m or so, is referred to as
- upper delta plain
 - lower delta plain
 - prodelta
 - delta front
45. Which one of the following sequences of sedimentary structures is correct in terms of increasing bed shear?
- Parting lineation, dune, flute mark, ripple
 - Ripple, dune, parting lineation, flute mark
 - Dune, parting lineation, flute mark, ripple
 - Flute mark, parting lineation, ripple, dune

46. A normal graded bed of sandstone is noticed with flute cast at its base and internally made up of massive, plane-laminated and ripple-laminated subdivisions, in order of superposition. The sandstone bed is interpreted as a product of
- debris flow
 - grain flow
 - turbidity current
 - contour current
47. In carbonate diagenesis, if calcite cement is overgrown on a single calcite crystal in same optical orientation, it is referred to as
- rim overgrowth
 - antitaxial overgrowth
 - blocky overgrowth
 - syntaxial overgrowth
48. A carbonate rock that contains almost no mud and shows grain-supported framework is named as
- grainstone
 - packstone
 - floatstone
 - bindstone
49. In a Barrovian zone of metamorphism, presence of biotite + chlorite + phengitic muscovite + quartz + albite assemblage marks the
- albite zone
 - biotite zone
 - zeolite zone
 - chlorite zone
50. Which one of the following is a characteristic assemblage of granulite facies metamorphism of mafic protolith?
- Hornblende + Plagioclase + Quartz + Garnet
 - Forsterite + Orthopyroxene + Clinopyroxene + Epidote
 - Clinopyroxene + Orthopyroxene + Plagioclase + Garnet + Quartz
 - Forsterite + Orthopyroxene + Clinopyroxene + Staurolite
51. When flattening occurs in rocks that contain rigid grains, zones of relatively low pressure develop on the sides of the crystals that are normal to the maximum compressive stress. These zones are called
- solution cleavage
 - pressure shadows
 - pressure solution
 - stylolites

57. The hinge line of a fold is

- (a) a line that divides the fold into symmetrical parts
- (b) a line that is always parallel to fold axis
- (c) a line of maximum curvature in a folded bed
- (d) a line of minimum curvature in a folded bed

58. In ocean, regional strike-slip faults associated with lithospheric plate boundaries are known as

- (a) transform faults
- (b) tear faults
- (c) wrench faults
- (d) scissor faults

59. In a fold, rock salt has broken through the more brittle overlying rocks and occupied its core. The structure is known as

- (a) disharmonic fold
- (b) drag fold
- (c) box fold
- (d) diapir fold

60. A fault having both dip-slip as well as strike-slip components is termed as

- (a) strike-slip fault
- (b) dip-slip fault
- (c) oblique-slip fault
- (d) wrench fault

61. If a marker bed crosses a valley and outcrops in the valley floor and walls, which one of the following statements is false according to the "rule of V's"?

- (a) The outcrop pattern of a bed which dips upstream forms a 'V' that points upstream.
- (b) The outcrop pattern of a horizontal bed forms a 'V' which points upstream.
- (c) The outcrop pattern of a vertical bed forms a straight line across the valley.
- (d) The outcrop pattern of a bed that dips downstream, with a dip angle less than the valley slope, forms a 'V' pointing downstream.

62. Consider the following statements regarding lineations :

1. Lineations in the brittle regime form in extension fractures, veins and on shear fractures.
2. Lineations in the plastic regime form non-penetrative fabrics alone.
3. Lineations are closely related to strain and therefore to kinematics.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

63. Pure dilation is

- (a) change in size only
- (b) change in shape only
- (c) change in shape without change in size
- (d) change in both size and shape

- 64.** Which one of the following is a chrono-stratigraphic unit?
 (a) Period (b) Age
 (c) Epoch (d) Stage
- 65.** The Cumbum Shale Formation belongs to
 (a) the Papaghni Group
 (b) the Kistna Group
 (c) the Nallamalai Group
 (d) the Cheyair Group
- 66.** Consider the following statements regarding the Eparchean unconformity :
1. It represents a major tectonic cycle.
 2. It is synchronous world over.
 3. It separates strongly deformed, metamorphosed basement rock from less deformed, less metamorphosed sedimentary cover rocks.
 4. It has been chronometrically assigned 2.5 Ga age in most parts of the globe based on average age of crustal stabilization.
- Which of the statements given above are correct?
 (a) 1, 2, 3 and 4
 (b) 2 and 3 only
 (c) 1, 2 and 4 only
 (d) 1, 3 and 4 only
- 67.** The Permo-Triassic boundary in the Gondwana Supergroup in Damodar Valley is demarcated by the transition between
 (a) Talchir and Barakar Formation
 (b) Raniganj and Panchet Formation
 (c) Barakar and Raniganj Formation
 (d) Karharbari and Raniganj Formation
- 68.** From radiometric age data, the emplacement of gneissic rocks in 'Peninsular Gneissic Complex' is largely constrained between
 (a) 2.2 and 2.0 billion years ago
 (b) 3.0 and 2.6 billion years ago
 (c) 4.2 and 3.5 billion years ago
 (d) 1.5 and 0.8 billion years ago
- 69.** The exoskeleton of trilobites is made up of
 (a) calcite
 (b) aragonite
 (c) chitin
 (d) silica
- 70.** In biostratigraphy, the body of rock classified based on the observed local range of a fossil within a stratigraphic section is known as
 (a) taxon range zone
 (b) concurrent range zone
 (c) partial range zone
 (d) interval zone
- 71.** The term 'biostratinomy' deals with the
 (a) process of decay of soft tissue of organism during fossilization
 (b) process that affects a dead organism after its burial and diagenesis
 (c) stratigraphic arrangement of fossils in rock
 (d) study of environmental factors that affect a dead organism prior to its final burial

- 72.** Which of the following rock builder larger benthic foraminifera of Middle-Eocene are relatively most abundant along shallow sea of Tethys margin?
- Lepidocyclinids
 - Nummulitids
 - Discocyclinids
 - Fusulinids
- 73.** Signor-Lipps effect explains the
- post-burial changes in fossils
 - taxonomic inconsistencies in fossil identification
 - problems with first or last occurrence (FO or LO) of fossil taxon
 - problems in identification of trace fossils
- 74.** Which of the following fossil groups are most commonly preserved in the black shale of Lower Palaeozoic rocks?
- Brachiopods
 - Graptolites
 - Gastropods
 - Trilobites
- 75.** According to the Stefan-Boltzmann law, the relation between total emitted radiation from a blackbody (M_λ , in W m^{-2}) and its absolute temperature (T , in kelvin) may be expressed as
- $M_\lambda \propto \frac{1}{T^2}$
 - $M_\lambda \propto T^2$
 - $M_\lambda \propto T^4$
 - $M_\lambda \propto \frac{1}{T^4}$
- 76.** The amount of radiant flux in specific wavelengths (λ) incident upon a surface per unit area of that surface is known as
- radiant energy (Q_λ)
 - radiant flux (Φ_λ)
 - irradiance (E_λ)
 - radiant exitance (M_λ)
- 77.** Consider the following statements regarding reflected light :
- The reflected light, vibrating in only one plane, is called polarized light.
 - The light reflected from a water body into the field of view of a camera is polarized light.
 - The light from a blue sky is non-polarized because it is reflected from non-metallic particles in the atmosphere.
- Which of the statements given above is/are correct?
- 1 and 2
 - 2 and 3
 - 3 only
 - 1 only
- 78.** In the satellite images, when other factors are same
- equal curvature of the earth is manifested by all altitude sensors
 - least curvature of the earth is manifested by highest altitude sensor
 - least curvature of the earth is manifested by lowest altitude sensor
 - highest curvature of the earth is manifested by lowest altitude sensor

86. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (Exploration method)	<i>List-II</i> (Mineral deposit)
A. Induced polarization	1. Kimberlite
B. Gravity	2. Petroleum
C. Seismic refraction	3. Disseminated metallic sulfides
D. Magnetic	4. Chromite

Code :

(a) A B C D
1 4 2 3

(b) A B C D
1 2 4 3

(c) A B C D
3 2 4 1

(d) A B C D
3 4 2 1

87. Consider the following statements regarding geophysical exploration for minerals :

1. Passive methods involve measurements of naturally existing fields.
2. Passive methods commonly include electrical, electromagnetic and seismic surveys.

Which of the statements given above is/are correct?

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

88. Consider the following statements regarding ore reserve calculation of a bauxite ore body :

1. Ore is to be taken out from 20 m × 10 m area up to 30 m depth.
2. The density of the ore is 1280 kg/m³.
3. Aluminium content of the ore is 25 wt.%.

Which one of the following indicates the correct reserve estimation of aluminium?

- (a) 6000 metric tonnes
(b) 7680 metric tonnes
(c) 307.2 metric tonnes
(d) 1920 metric tonnes

89. Which one of the following mineral-composition pairs is correctly matched?

- (a) Magnesite-FeCO₃
(b) Manganite-MnCO₃
(c) Magnetite-FeFe₂O₄
(d) Molybdenite-MoSO₄

90. Consider the following statements regarding porphyry copper deposits :

1. Porphyry copper deposits are characterized by large tonnage and high grade ores.
2. They generally consist of chalcopyrite-pyrite-molybdenite with concentric mineral zoning.
3. Extensive alteration zones are characteristic of porphyry copper deposits.

Which of the statements given above is/are correct?

- (a) 1 only
(b) 1 and 2 only
(c) 1, 2 and 3
(d) 2 and 3 only

91. Which one of the following statements regarding supergene copper deposit is **not** correct?

- (a) The top zone consisting of goethitic/limonitic mass with some clay is gossan.
- (b) The zone of secondary enrichment lies below the groundwater surface where copper content increases.
- (c) The supergene enrichment zone gradually merges with the protore.
- (d) The zone between gossan and groundwater surface causes reduction of sulfides hence Cu content is increased here.

92. Consider the following statements :

1. Algoma-type iron formations are sedimentary units in sequences of submarine volcanic rocks in greenstone belts, most commonly of Cambrian age.
2. Superior-type iron formations occur in sedimentary basins of marine strata of late Archaean or Palaeoproterozoic age.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) Both 1 and 2
- (c) 2 only
- (d) Neither 1 nor 2

93. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i> (Hydrocarbon deposit)	<i>List-II</i> (Location)
A. Lignite	1. Kalol, Gujarat
B. Oil	2. Neyveli, Tamil Nadu
C. Bituminous coal	3. Jaisalmer, Rajasthan
D. Natural gas	4. Kamte, Maharashtra

Code :

(a) A B C D
2 1 4 3

(b) A B C D
2 4 1 3

(c) A B C D
3 4 1 2

(d) A B C D
3 1 4 2

94. Which one of the following is **not** considered for the calculation of rock mass rating?

- (a) Uniaxial compressive strength
- (b) Condition of discontinuities
- (c) Rock quality designation
- (d) Slake durability index

95. The suitable geological conditions required for construction of a dam are
1. resistant and stable bedrock
 2. foundation rock with downstream dip
 3. foundation rock with gentle upstream dip
 4. broad valley with faulted strata

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 3 and 4
- (c) 1 and 3
- (d) 1 and 4

96. Freezing of water in a saturated rock may induce

- (a) compressive stress
- (b) shear stress
- (c) tensile stress
- (d) residual stress

97. The soil will behave as a plastic material between

- (a) shrinkage limit and plastic limit
- (b) shrinkage limit and liquid limit
- (c) plastic limit and liquid limit
- (d) zero% water content and plastic limit

98. In which one of the following dams, the major portion of the water pressure is transmitted to the abutments or sides of the valley?

- (a) Earth dam
- (b) Arch dam
- (c) Buttress dam
- (d) Rock-fill dam

99. The Brazilian test is used to determine

- (a) crushing strength
- (b) tensile strength
- (c) transverse strength
- (d) shear strength

100. Which one of the following is the best condition for tunnel site consideration?

- (a) Tunnel along the axis of an anticline
- (b) Tunnel within thick horizontal formation
- (c) Tunnel along the axis of a syncline
- (d) Horizontal tunnel parallel to the dip direction of rock strata

101. Consider the following statements regarding geothermal energy :

1. Most areas where this energy is being tapped are along or near the plate boundaries.
2. Seasonal variation in the earth's surface temperature significantly affects this energy.
3. The places on the earth where groundwater circulates near magma are the easier sites of extraction of this energy.
4. The places on the earth having geothermal gradient around 25 °C/km are considered as good potential zones for this energy.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 1, 2 and 3
- (d) 1, 2 and 4

102. Carbon dioxide emissions from land entering the oceans

1. make oceanic water acidic
2. make oceanic water basic
3. help some marine organisms to make their carbonate shells by drawing carbonate from the seawater

Select the correct answer using the code given below.

- (a) 1 only
(b) 2 and 3
(c) 2 only
(d) 1 and 3

103. In coastal areas, groundwater resource is being threatened by the encroachment of saltwater because

1. freshwater being less dense than saltwater, floats over the latter and forms large lens-shaped body
2. saltwater being dense, is available at very shallow depths in coastal regions
3. heavy pumping in coastal areas causes encroachment of saltwater
4. waves and tides cause mixing of saltwater with freshwater

Select the correct answer using the code given below.

- (a) 1 and 3
(b) 2 and 4
(c) 4 only
(d) 2 only

104. The organic matter load in a water body is described as

- (a) dissolved oxygen
(b) biochemical oxygen demand
(c) chemical oxygen demand
(d) total hardness

105. Which of the following are the requirements for locating epicentre of an earthquake?

1. Time difference data of first arrivals of P and S waves on a seismograph station
2. Highest amplitude data from seismograph stations
3. Time and amplitude data from several seismograph stations

Select the correct answer using the code given below.

- (a) 1, 2 and 3
(b) 1 and 3 only
(c) 2 and 3 only
(d) 1 and 2 only

106. Palaeoseismicity is related to the study of

- (a) earthquakes of the geological past through slippage observed in the field along faults
- (b) relationship between earthquake and faulting
- (c) mapping of earthquakes
- (d) risk related to seismic activities

107. Consider the following statements regarding the earth's interior :

1. Seismic waves reveal that the average depth of mantle is about 3100 km.
2. Based on the seismic wave studies, the concept of solid inner core was given by Inge Lehmann.
3. The sharp contrast from seismological wave velocities below the crust was noticed by Andrija Mohorovičić.
4. Transverse waves do not propagate in the outer core and hence the material here is in fluid stage.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2, 3 and 4 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3 and 4

108. Consider the following statements regarding Richter scale :

1. It is the first scale to estimate the size of an earthquake by instrument.
2. It is based on the released energy at focus of the earthquake.
3. It is based on the maximum amplitude of waves measured on a seismograph.
4. It is based on extent of the damage done by the seismic waves.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

109. The velocity of the seismic waves within the earth ranges from

- (a) 1 to 4 km/second
- (b) 2 to 8 km/second
- (c) 3 to 10 km/second
- (d) 2 to 13 km/second

110. Which one of the following is the correct order of abundance of dissolved salts in ocean water?

- (a) $\text{NaCl} > \text{MgSO}_4 > \text{MgCl}_2 > \text{CaCO}_3 > \text{K}_2\text{SO}_4 > \text{CaSO}_4 > \text{MgBr}_2$
- (b) $\text{NaCl} > \text{MgCl}_2 > \text{MgSO}_4 > \text{CaSO}_4 > \text{K}_2\text{SO}_4 > \text{CaCO}_3 > \text{MgBr}_2$
- (c) $\text{NaCl} > \text{K}_2\text{SO}_4 > \text{MgSO}_4 > \text{MgCl}_2 > \text{CaCO}_3 > \text{CaSO}_4 > \text{MgBr}_2$
- (d) $\text{NaCl} > \text{MgCl}_2 > \text{K}_2\text{SO}_4 > \text{CaSO}_4 > \text{CaCO}_3 > \text{MgBr}_2 > \text{MgSO}_4$

111. *Zoophycos* assemblage is the characteristic ichnofacies of which one of the following zones?

- (a) Sublittoral zone
- (b) Bathyal zone
- (c) Abyssal zone
- (d) Littoral zone

112. Which one of the following errors results in because of wind effects in aerial photography?

- (a) Drift
- (b) Scale distortion
- (c) Uncontrolled mosaicking
- (d) Radiometric distortion

113. In a GIS database, the location of meteorological station with respect to a specific land use can be identified using

- (a) line to polygon overlay
- (b) polygon on polygon overlay
- (c) point in polygon overlay
- (d) line on line overlay

114. GPS satellites carry rubidium and cesium atomic clocks that usually have time accuracy of 1 part in

- (a) 10^2 and 10^4 respectively
- (b) 10^2 and 10^8 respectively
- (c) 10^6 and 10^{10} respectively
- (d) 10^{12} and 10^{13} respectively

115. Consider the following statements :

Statement 1 :

Passive microwave remote sensing can help in detecting seepage zones, springs, faults, soil moisture variations, etc.

Statement 2 :

Water and vegetation have dielectric constants that are very different from those of other ground objects.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement 1 and Statement 2 are true and Statement 2 is the correct explanation of Statement 1
- (b) Both Statement 1 and Statement 2 are true and Statement 2 is not the correct explanation of Statement 1
- (c) Statement 1 is true but Statement 2 is false
- (d) Statement 1 is false but Statement 2 is true

116. Consider the following statements regarding specific yield of an aquifer :

1. It is the ratio of the volume of water that after saturation can be drained by gravity to its own volume.
2. Its value does not depend on the grain size.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

117. The intrinsic permeability of the porous medium depends on the

1. size of the opening through which the fluid moves
2. shape of the opening through which the fluid moves

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

118. Which of the following statements regarding the Total Dissolved Solids (TDS) and Electrical Conductance (EC) of the groundwater are correct?

1. A rapid determination of the TDS can be made by measuring the EC of the groundwater sample.
2. The specific conductance is measured in microsiemens/cm.
3. The specific conductance decreases with increase in temperature.

Select the correct answer using the code given below.

- (a) 2 and 3 only
- (b) 1 and 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

119. Consider the following statements regarding irrigation water :

Statement 1 :

Sodium concentration is important for classifying irrigation water.

Statement 2 :

Sodium reacts with soil to reduce its permeability and hence affects the agricultural activity.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement 1 and Statement 2 are true and Statement 2 is the correct explanation of Statement 1
- (b) Both Statement 1 and Statement 2 are true and Statement 2 is not the correct explanation of Statement 1
- (c) Statement 1 is true but Statement 2 is false
- (d) Statement 1 is false but Statement 2 is true

120. Consider the following statements regarding an aquifer composed of unconsolidated materials :

1. The resistivity increases with the degree of saturation.
2. The resistivity increases with increase in salinity of groundwater.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

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T.B.C. : KLOS-F-PHRM



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1004729

TEST BOOKLET

PHARMACEUTICAL SCIENCES



Time Allowed : Two Hours

Maximum Marks : 300

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1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write **anything else** on the Test Booklet.
4. This Test Booklet contains **150** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
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6. All items carry equal marks.
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10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
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 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
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(1 - A)

1. Eriochrome Black T is :
 - (a) Natural indicator
 - (b) Metallochrome indicator
 - (c) Redox indicator
 - (d) Acid-base indicator
2. Which one of the following is an example of aminoglycoside antibiotic ?
 - (a) Streptomycin
 - (b) Clavulanic acid
 - (c) Cefaclor
 - (d) Azithromycin
3. Which one of the following is an example of reverse transcriptase inhibitor ?
 - (a) Acyclovir
 - (b) Cytarabine
 - (c) Idoxuridine
 - (d) Zidovudine
4. Reactive intermediate in S_N1 reaction is :
 - (a) Carbene
 - (b) Carbanion
 - (c) Free radical
 - (d) Carbocation
5. Parameter that indicates polarity of a solvent is :
 - (a) Dissociation constant
 - (b) Dielectric constant
 - (c) Boiling point
 - (d) Freezing point
6. Vitamin B consists of which one of the following ring systems ?
 - (a) Pyridine
 - (b) Piperidine
 - (c) Pyrimidine
 - (d) Pyridazine
7. Nitric oxide is biosynthesized from :
 - (a) L-Citrulline
 - (b) L-Glycine
 - (c) L-Arginine
 - (d) L-Tyrosine
8. Chemical structure of Timolol has which of the following heterocycles ?
 - (a) Morpholine and Thiadiazole
 - (b) Morpholine and Triazole
 - (c) Piperidine and Imidazole
 - (d) Pyridine and Morpholine
9. Phenobarbitone is the active metabolite of :
 - (a) Phenytoin
 - (b) Primidone
 - (c) Phenoxybenzamine
 - (d) Phenylephrine
10. Benzhydryl bromide is the starting material for the synthesis of :
 - (a) Diphenhydramine
 - (b) Diclofenac
 - (c) Diphenylhydantoin
 - (d) Dipyridamole
11. Thyroxine can be synthesized from :
 - (a) L-Tryptophan
 - (b) L-Tyrosine
 - (c) L-Proline
 - (d) L-Phenylalanine
12. Rochelle salt is :
 - (a) Potassium sodium tartrate
 - (b) Silver nitrate
 - (c) Sodium thiosulphate
 - (d) Potassium chloride
13. 2,6-Xylidine is the reactant for the synthesis of :
 - (a) Benzocaine
 - (b) Procaine
 - (c) Lidocaine
 - (d) Cinchocaine
14. λ_{\max} for conjugated dienes can be calculated by which one of the following rules/law ?
 - (a) Woodward's rule
 - (b) Beer-Lambert law
 - (c) Saytzeff's rule
 - (d) Markovnikov's rule
15. Thalidomide, previously banned for its teratogenic activity is again introduced in the market for which one of the following uses ?
 - (a) Sedative hypnotic
 - (b) Anticonvulsant
 - (c) Lepa reactions
 - (d) Antibiotic

16. Spironolactone has which one of the following ring system ?
- γ -Lactone
 - β -Lactone
 - β -Lactam
 - γ -Lactam
17. Paracetamol was detected as a metabolite of :
- Diclofenac
 - Ibuprofen
 - Ketoprofen
 - Phenacetin
18. Gutzeit test apparatus is used for which one of the following limit tests ?
- Heavy metals
 - Iron
 - Arsenic
 - Sulphate
19. Benzyne formation takes place during :
- Nucleophilic aromatic substitution
 - S_N1 reaction
 - S_N2 reaction
 - Electrophilic aromatic substitution
20. Ruff degradation of (+) - Xylose yields :
- (-) Glucose
 - (+) Fructose
 - (-) Threose
 - (+) Glucose
21. Formation of Acetyl-CoA is the link between which of the following ?
- Glycolysis and Pentose shunt pathway
 - Glycolysis and Gluconeogenesis
 - Glycolysis and Citric acid cycle
 - Citric acid cycle and Electron transport chain
22. Indole is synthesized by :
- Sandmeyer reaction
 - Beckmann rearrangement
 - Skraup synthesis
 - Fischer synthesis
23. Primaquine induces hemolysis in some African patients deficient in which one of the following enzymes ?
- Glucose-6-phosphate dehydrogenase
 - Carbonic anhydrase
 - Acetylcholinesterase
 - Chymotrypsin
24. Enalapril belongs to which one of the following esters of enalaprilic acid ?
- Methyl
 - Ethyl
 - Benzyl
 - n-Propyl
25. Which one of the following is an example of Angiotensin II blocker ?
- Fosinopril
 - Clonidine
 - Cosartan
 - Propranolol
26. The reaction between methylbromide and hydroxide ion to yield methanol is a/an :
- S_N2 reaction
 - S_N1 reaction
 - E2 reaction
 - E1 reaction

50. As per Indian Pharmacopeia, maximum number of particles per mL allowed for the Larger Volume Parenteral (LVP), labelled as containing 100 mL or more of a single dose large volume injection intended for administration by intravenous infusion with particle size **not** exceeding 10 μm is :
- (a) 5 particles per mL
 - (b) 25 particles per mL
 - (c) 50 particles per mL
 - (d) 10 particles per mL
51. In India, IP Reference Substances (IPRS) are issued by the :
- (a) Central Drug Research Institute, Lucknow
 - (b) Chemical Laboratory, Pune
 - (c) Indian Pharmacopoeia Commission, Ghaziabad
 - (d) Indian Institute of Chemical Biology, Kolkata
52. Which one of the following classes of clean air is required for aseptic operation ?
- (a) Class 100
 - (b) Class 1,000
 - (c) Class 10,000
 - (d) Class 100,000
53. Which one of the following antioxidant compounds is used in aqueous system cosmetics ?
- (a) Sodium bisulphite
 - (b) Hydroquinone
 - (c) α -Tocopherol
 - (d) Propyl gallate
54. Which one of the following application forms is applicable in case of manufacture for sale of Ayurveda, Siddha or Unani drugs ?
- (a) Form 25-E
 - (b) Form 24-D
 - (c) Form 26-D
 - (d) Form 25-D
55. Which one of the following guidelines are followed for analytical method validation, if the method of analysis is **not** official in any pharmacopeia or appear in other recognized references ?
- (a) ICH guidelines
 - (b) WHO guidelines
 - (c) GLP guidelines
 - (d) HACCP guidelines
56. Which one of the following sections represents misbranded cosmetics under manufacture, sale and distribution of drugs and cosmetics ?
- (a) Section 9A
 - (b) Section 9D
 - (c) Section 17C
 - (d) Section 14
57. Which one of the following antimicrobials is used in the preparation of deodorant soaps ?
- (a) Bithionol
 - (b) Propylene glycol
 - (c) Trichlorocarbanilide
 - (d) Titanium dioxide

58. The expert committee shall examine the report of serious event of death and give its recommendation to the licensing authority for the purpose of arriving at the cause of the adverse event within how many days of the occurrence of the adverse event ?
- 150 days
 - 30 days
 - 90 days
 - 105 days
59. According to New Drugs and Clinical Trials Rules, 2019, the sponsor is required to forward his report on serious adverse event of death after due analysis to the licensing authority and the head of the institution where the trial has been conducted within how many days of the occurrence of the event ?
- Within 1 day
 - Within 7 days
 - Within 14 days
 - Within 30 days
60. With regard to compensation in case of injury or death during clinical trial, all of the following statements are true *except* :
- Financial compensation could be in the form of payment for medical management.
 - Financial compensation is not provided for a child injured in-utero because of the participation of parent in clinical trial.
 - In case of death, there is a provision to give financial compensation to the nominee(s) of the trial subject.
 - Financial compensation shall be provided if injury or death occurs due to failure of investigational product to provide intended therapeutic effect where, the standard care, though available, was not provided to the subject as per the clinical trial protocol.
61. According to GCP guidelines, the minimum number of members required in quorum of Ethics Committee to review the protocol is :
- 5
 - 6
 - 7
 - 9
62. According to GCP guidelines, which one of the following statements does *not* hold true for Ethics Committee ?
- All members serving in Ethics Committee that oversees human research at an institution must be employed by that institution.
 - Ethics Committee should include at least one member whose primary area of interest is non-scientific.
 - Ethics Committee should have appropriate gender representation.
 - For review of each protocol the quorum of Ethics Committee shall be at least five members.
63. Which one of the following is *not* considered as the essential element in the study subject's informed consent documents according to GCP guidelines ?
- Expected duration of the subject's participation
 - An explanation about whom to contact for trial related queries, rights of subjects and in the event of an injury
 - A statement that there is a possibility of failure of investigational product to provide intended therapeutic effects
 - A statement that the particular treatment or procedure may invoke risks to the subject, which are currently unforeseeable

64. As per ICH E6 GCP guidelines, all of the following should be complied *except* :
- Information recorded in the investigator's reports should be complete, accurate and legible
 - Any missed study visits may not be noted in the reports
 - Subjects who were dropped from or failed to complete the study are noted in the report with the reason adequately explained
 - Informed consent should be adequately documented
65. As per ICH GCP guidelines, whose responsibility is it to ensure that investigators are qualified by education and experience and are trained on the conduct of the protocol ?
- FDA
 - Study sponsor
 - Investigator
 - Ethics Committee
66. The document retention period as required by FDA following the date of marketing application approval or after the investigation is discontinued and the FDA notified, is :
- One year
 - Two years
 - Three years
 - Five years
67. In indirect Enzyme-Linked Immunosorbent Assay :
- A standardized monoclonal antibody is immobilized on the solid support for detection.
 - A standardized polyclonal antibody is immobilized on the solid support for detection.
 - Antigen-antibody complex is immobilized on the solid support for detection.
 - A standardized antigen is immobilized on the solid support for detection.
68. Which one of the following antibodies is responsible for allergic reactions ?
- IgE
 - IgG
 - IgM
 - IgA
69. Which one of the following is *not* a bacterial vaccine ?
- BCG vaccine
 - Pertussis vaccine
 - Meningococcal vaccine
 - Measles vaccine
70. Which one of the following statements regarding adjuvants is *not* correct ?
- They increase the antigen specific immune responses.
 - They decrease the antigen specific immune responses.
 - They preserve antigen integrity.
 - They produce high affinity immune responses.
71. Which one of the following is the correct sequence of immunoglobulins on the basis of molecular weight (Dalton) ?
- IgG > IgA > IgD > IgM > IgE
 - IgM > IgE > IgG > IgD > IgA
 - IgD > IgG > IgA > IgE > IgM
 - IgM > IgE > IgD > IgA > IgG

72. Ceruloplasmin is responsible for binding and transportation of which one of the following elements in the blood ?
- Copper
 - Iron
 - Magnesium
 - Zinc
73. Erythropoiesis is the process of :
- Development of red blood cells
 - Development of thrombocytes
 - Development of white blood cells
 - Development of monocytes
74. Which one of the following statements regarding blood group "O" is correct ?
- It has agglutinin A only on the RBCs.
 - It has agglutinin B only on the RBCs.
 - It has agglutinin A and B both, on the RBCs.
 - It has agglutinin anti-A and anti-B in the plasma.
75. Consider the following statements regarding vaccines :
- Polio-Salk is a live attenuated vaccine.
 - Polio-Sabin is an inactivated vaccine.
 - Hepatitis A is an inactivated vaccine.
 - Hepatitis B is a subunit vaccine (HBsAg).
- Which of the statements given above are correct ?
- 2 and 4
 - 2 and 3
 - 1 and 3
 - 3 and 4
76. Which one of the following does *not* provide passive immunity ?
- Inactivated micro-organisms
 - Humanized monoclonal antibodies
 - Natural mother antibody transferred to foetus
 - Antitoxin
77. Consider the following vaccines :
- DNA vaccine
 - mRNA vaccine
 - Live attenuated vaccine
 - Inactivated vaccine
- The correct order of stability of vaccines given above is :
- 1 > 3 > 4 > 2
 - 2 > 4 > 3 > 1
 - 1 > 4 > 3 > 2
 - 2 > 3 > 4 > 1
78. Which one of the following Human Leukocyte Antigens (HLA) encodes for major histocompatibility complex-II ?
- HLA-A
 - HLA-B
 - HLA-C
 - HLA-D
79. Which one of the following clotting factors does *not* require vitamin K during blood coagulation process ?
- Factor IX
 - Factor V
 - Factor VII
 - Factor X
80. Which one of the following proteins is mainly responsible for binding with drugs in plasma ?
- Apolipoproteins
 - Albumin
 - Transferrin
 - Immunoglobulin G

88. Licenses for retail sale of drugs other than Schedule X are issued by the State Licensing Authority in :
(which require services of registered pharmacist)
- Form 20, 21
 - Form 20B, 21B
 - Form 20F, 20G
 - Form 20A, 21A
89. The drugs specified under which of the following schedules to the Drugs and Cosmetics Rules, 1945 will **not** be sold by retail except on and in accordance with the prescription of a Registered Medical Practitioner :
- Schedule U
 - Schedule Y
 - Schedule H
 - Schedule H1
 - Schedule X
- Select the correct answer using the code given below :
- 3 and 4 only
 - 3, 4 and 5
 - 1, 2 and 3
 - 2, 3, 4 and 5
90. The medical devices shall conform to the standards laid down by the :
- WHO
 - US FDA
 - Bureau of Indian Standards (BIS)
 - ISO/IEC/Pharmacopoeial standards where BIS standards are not available
- Select the correct answer using the code given below :
- 1 and 2 only
 - 1, 3 and 4
 - 2 and 3 only
 - 3 and 4 only
91. Medical devices under the Medical Devices Rules, 2017 have been classified in which of the following classes ?
- Class 1, Class 2, Class 3, Class 4
 - Class O, Class P, Class Q, Class R
 - Class A, Class B, Class C, Class D
 - Class I, Class II, Class III, Class IV
92. Application for manufacture of cosmetics for sale/distribution is required to be made to the State Licensing Authority in :
- Form COS-3
 - Form COS-5
 - Form COS-6
 - Form COS-7
93. The premises licensed for manufacturing cosmetics shall be inspected by Inspector appointed by the Central Government and State Government to verify the conditions of licence **not** less than :
- Once in a year
 - Once in two years
 - Once in three years
 - Once in four years

136. Which one of the following is used for calibration of absorbance scale of UV-Vis spectrophotometer ?
- (a) Potassium chloride solution
 - (b) Potassium chromate solution
 - (c) Holmium perchlorate solution
 - (d) Potassium dichromate solution
137. Which one of the following is **not** an example of utility software ?
- (a) Antivirus
 - (b) WinZip
 - (c) Google Chrome
 - (d) Disk Defragmenter
138. Which one of the following programming languages is used to develop an android application for mobile device ?
- (a) Python
 - (b) C
 - (c) Java
 - (d) C++
139. Which one of the following symbols represents the data flow in motion, used in data flow diagram (DFD) ?
- (a) Open-ended box
 - (b) Square
 - (c) Circle
 - (d) Arrow
140. Which one of the following is designed to control the internal operations of the computer system ?
- (a) Antivirus
 - (b) Application software
 - (c) Compiler
 - (d) System software
141. Which one of the following performs the matching of domain names to IP addresses in the Internet services ?
- (a) HTTP
 - (b) URL
 - (c) DNS
 - (d) HTML
142. Which one of the following statements regarding Anti-spyware software is correct ?
- (a) It edits the files to become not readable.
 - (b) It is used to analyse the network traffic.
 - (c) It scans all files before they are installed in the computer system.
 - (d) It detects and removes all the programs installed illegally in the computer system.
143. Which one of the following is **not** a threat to cyber security ?
- (a) Denial of service
 - (b) Phishing
 - (c) RSA
 - (d) Malware

RT-Exam-2023

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T.B.C. : XWLP-B-CHM



Test Booklet Series

Serial 1005689

TEST BOOKLET

CHEMISTRY AND CHEMICAL ENGINEERING



Time Allowed : Two Hours

Maximum Marks : 300

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write **anything else** on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.

10. Penalty for wrong answers :

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third (0.33)** of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. For which of the following minerals is India the major world producer supplying 80% of world output ?
 - (a) Iron
 - (b) Bauxite
 - (c) Mica
 - (d) Coal

2. Nuclear source of energy is :
 1. the clean and economical energy source.
 2. the compact source and concentrated source.
 3. the uneconomical and concentrated source.
 4. the non-compact and concentrated source.
 Which of the above statements is/are correct ?
 - (a) 1 only
 - (b) 1 and 2 only
 - (c) 3 and 4 only
 - (d) 4 only

3. Which one of the following processes is used in industries to produce plastics and synthetic fibers ?
 - (a) Amination by reduction
 - (b) Calcination
 - (c) Ammonoxidation
 - (d) Alkylation

4. Reciprocating pumps are generally used in industries for :
 - (a) uniform mixing
 - (b) low pressure operation
 - (c) minimizing attrition losses
 - (d) metering and proportioning

5. What is the oldest process used to separate heavy minerals from lighter gangues ?
 - (a) Centrifugation
 - (b) Jigging
 - (c) Screening
 - (d) Elutriation

6. Which process is generally used to produce 98% of H_2SO_4 in industries ?
 - (a) Chamber process
 - (b) Contact process
 - (c) Catalytic process
 - (d) Electrolytic process

7. Which one of the following electrochemical industries produces alloy steels ?
 - (a) Electric furnacing
 - (b) Electrothermal
 - (c) Fused electrolytic
 - (d) Aqueous electrolytic

8. Which type of Portland Cement will be good for sea water contact ?
 - (a) Type I – Regular
 - (b) Type IV – Low heat
 - (c) Type III – High early strength
 - (d) Type V – Sulphate resistant

9. Which substance is added in detergents to enhance the foam formation ?
 - (a) Sodium carboxycellulose
 - (b) Sodium tripolyphosphate
 - (c) Fluorescent dyes
 - (d) Sodium silicate

10. Which insecticide was extensively used during Second World War to control body lice ?
 - (a) Benzene hexachloride
 - (b) Pyrethrum
 - (c) Sodium aluminium fluorosilicate
 - (d) Dichloro-diphenyl-trichloroethane

11. What are the two principal methods of tanning used in leather industries ?
- Acid and alkali tanning
 - Vegetable and acid tanning
 - Chrome and alkali tanning
 - Vegetable and chrome tanning
12. The B.O.D. is very high in dairy effluent due to :
- high amount of biodegradable organic matter
 - high amount of non-degradable inorganic matter
 - high amount of greasy materials
 - high amount of silicates
13. Which process is used to bring the structural modifications in straight run gasoline to improve its anti-knock properties ?
- Reforming
 - Tinning
 - Refining
 - Knocking
14. Which compound has the highest cetane number ?
- α -Methyl naphthalene
 - Isobutane
 - n-Hexadecane
 - Cyclohexene
15. What happens when tetraethyl lead is added to gasoline ?
- Decreases the octane number of gasoline
 - Increases the anti-knocking properties of gasoline
 - Increases the viscosity of gasoline
 - Increases the rate of combustion of gasoline
16. Which compound has the Octane number Zero ?
- n-octane
 - Iso-octane
 - n-heptane
 - n-hexadecane
17. What type of gases are analyzed by Orsat flue gas apparatus ?
- CO_2 , O_2 , CO and N_2
 - SO_2 , O_2 , CO_2 and H_2O vapours
 - Cl_2 , N_2 , O_2 and SO_2
 - SO_2 , CO_2 , NO_2 and O_2
18. Identify the increasing order of knocking tendency of the following compounds ?
- Isooctane < n-heptane < naphthalene
 - Naphthalene < isooctane < n-heptane
 - n-heptane < naphthalene < isooctane
 - Naphthalene < n-heptane < isooctane
19. Which catalyst is used for the cracking of heavy oil ?
- $\text{Pt} - \text{Al}_2\text{O}_3$
 - Ni or Sn oleate
 - $\text{CO} + \text{Th} + \text{MgO} + \text{keiselguhr}$
 - $\text{Al}_2\text{O}_3 + \text{ZrO}_2 + \text{clay}$
20. What is the composition of Power alcohol ?
- 5 – 25% of ethyl alcohol with gasoline
 - 5 – 25% of ethyl alcohol with diesel
 - 25 – 30% of methyl alcohol with gasoline
 - 25 – 30% of methyl alcohol with diesel

21. Which of the following fraction of crude oil has the lowest boiling temperature ?
- Gasoline
 - Kerosene oil
 - Petroleum ether
 - Solvent spirit
22. Which of the following gases is used in Fischer-Tropsch method ?
- $\text{CO} + \text{N}_2$
 - $\text{CO} + \text{H}_2$
 - $\text{CO}_2 + \text{H}_2$
 - LPG gas
23. Which one of the following direct methods is used to convert the solid coal into gasoline (liquid fuel) ?
- Bergius method
 - Gravity Separation method
 - Pyrolysis method
 - Biochemical Heating method
24. Which one of the following chemicals is used to remove the sulphur from gasoline ?
- Lead sulphate
 - Trilead tetroxide
 - Sodium plumbite
 - Lead monoxide
25. Which process transfers the energy from the more energetic particles of a substance to the adjacent less energetic ones as a result of interactions between the particles ?
- Conduction
 - Convection
 - Radiation
 - Insulation
26. What is the heat flux on the surface of the filament which is 5 cm long and 0.5 mm in diameter and present in the 150 W incandescent lamp ?
- $1.91 \times 10^6 \text{ W/m}^2$
 - $6.0 \times 10^8 \text{ W/m}^2$
 - $3.34 \times 10^7 \text{ W/m}^2$
 - $4.37 \times 10^6 \text{ W/m}^2$
27. What are the types of reflection phenomena observed when radiation strikes a surface ?
- Specular and thermal radiation
 - Diffuse and thermal radiation
 - Specular and diffuse radiation
 - Conduction and thermal radiation
28. In which system is the internal resistance of the body negligible as compared to the external resistance ?
- Radiator system
 - Bluff body system
 - Black body system
 - Lumped-Heat-Capacity system
29. What is the more convenient term to express the concentration of a component ?
- Molecular weight
 - Molar concentration
 - Molality
 - Molarity
30. Fick's law of diffusion governs mass transfer at :
- microscopic level
 - atomic level
 - macroscopic level
 - molecular diffusion level

31. The hydrogen gas stored in a vessel diffuses through a 20 mm thick steel wall.
The molar concentration of hydrogen gas at the inner surface is 2 kg mol/m^3 and zero at the other surface. Assuming plane wall condition and $D_{ab} = 0.26 \times 10^{-12} \text{ m}^2/\text{s}$, what is the mass of hydrogen diffused per 1 m^2 ?
- (a) $5.2 \times 10^{-11} \text{ kg/m}^2\text{s}$
 (b) $2.6 \times 10^{-11} \text{ kg/m}^2\text{s}$
 (c) $3.7 \times 10^{-11} \text{ kg/m}^2\text{s}$
 (d) $1.9 \times 10^{-11} \text{ kg/m}^2\text{s}$
32. The heat transfer correlation can be applied to mass transfer under similar condition by :
- (a) replacing Nusselt number by Sherwood number
 (b) replacing Prandtl number by Schmidt number
 (c) replacing Sherwood number by Nusselt number and Schmidt number by Prandtl number
 (d) replacing Nusselt number by Sherwood number and Prandtl number by Schmidt number
33. McCabe-Thiele method is used to compute :
- (a) number of ideal plates
 (b) number of real plates
 (c) feed concentration
 (d) retentate concentration
34. How is reflux made in the distillation column ?
- (a) By supplying heat at the condenser and withdrawing it at the reboiler
 (b) By supplying heat at the reboiler and withdrawing it at the condenser
 (c) By supplying heat to both reboiler and condenser
 (d) By withdrawing heat from both reboiler and condenser
35. Which tray is designed to bring a rising stream of vapour into intimate contact with a descending stream of liquid ?
- (a) Valve tray
 (b) Bubble tray
 (c) Sieve tray
 (d) Valve and bubble tray
36. Consider the following statements regarding leaching :
1. The removal of soluble material is greater than ordinary filtration and washing.
 2. The removal of soluble material is lesser than ordinary filtration and washing.
 3. The properties of the solids may change considerably during the leaching operation.
 4. The properties of the solids will not change considerably during the leaching operation.
- Which of the above statements are correct ?
- (a) 1 and 4 only
 (b) 2 and 3 only
 (c) 1 and 3 only
 (d) 2 and 4 only
37. What is the monomer unit of Plexiglass ?
- (a) Methyl methacrylate
 (b) Terephthalic acid
 (c) Ethylene glycol
 (d) Acrylic acid

61. Which one of the following is the correct composition of Biotite mica ?
- (a) Iron and Mg
 - (b) Cu and Mn
 - (c) Co and Ni
 - (d) Fe and Mn
62. Which of the following is the most abundant rock-forming mineral in the Earth's crust ?
- (a) Mica group
 - (b) Oxide group
 - (c) Feldspars
 - (d) Silica group
63. Which of the following types of rocks is/are preferred in engineering construction ?
- (a) Sedimentary rocks
 - (b) Metamorphic rocks
 - (c) Pyrite rocks
 - (d) Igneous rocks
64. Which one of the following is used for making rock wool ?
- (a) Basalt
 - (b) Peridotite
 - (c) Pyroxene
 - (d) Dunite
65. Which one of the following is the chemical formula of Argol ?
- (a) $MgAl C_4H_4O_6$
 - (b) $FeC_4H_4O_6$
 - (c) $MgC_4H_4O_6$
 - (d) $KHC_4H_4O_6$
66. Which one of the following is used for the determination of gold and silver in ores ?
- (a) Wet lead assay
 - (b) Silver sulphide assay
 - (c) Scorification assay
 - (d) Degradation assay
67. Which one of the following is the characteristic of a good fuel ?
- (a) High ignition temperature and high calorific value
 - (b) Moderate ignition temperature and high calorific value
 - (c) Low ignition temperature and low calorific value
 - (d) Low ignition temperature and high calorific value

68. Which one of the following calorimeters is used to determine the calorific value of a gaseous fuel ?
- Junker's calorimeter
 - Bomb calorimeter
 - Boys calorimeter
 - Orsat apparatus
69. Which one of the following is a good quality of coal on the basis of carbon percentage and calorific value ?
- Lignite
 - Peat
 - Anthracite
 - Bituminous
70. What parameters can be determined by ultimate analysis of coal ?
- Percentage of volatile substances
 - Percentage of moisture
 - Percentage of lignite
 - %C %H %N %S and %O
71. Which one of the following represents carbonization of coal ?
- Conversion of coal into coke in the presence of air
 - Conversion of coke into coal in the presence of air
 - Conversion of coke into coal in the absence of air
 - Conversion of coal into coke in the absence of air
72. Which one of the following types of coals can be converted into coke ?
- Anthracite
 - Bituminous coal
 - Lignite
 - Peat
73. Which law is basic for the understanding of equilibrium and kinetic processes in materials ?
- Maxwell-Boltzmann energy distribution law
 - Bragg's law of X-ray diffraction
 - Fick's laws of diffusion
 - The Lever rule
74. A crystalline solid with an aggregate of many crystals separated by well defined boundaries are :
- Quartz
 - Gemstones
 - Polycrystalline
 - Conducting polymers
75. Crystal directions and crystal planes are denoted by :
- Cubic lattices
 - Miller indices
 - Bragg's law
 - Tetragonal lattices

84. Which one of the following forms of corrosion occurs when two different metals or alloys are electrically coupled while exposed to an electrolyte ?
- (a) Intergranular corrosion
 - (b) Uniform corrosion
 - (c) Crevice corrosion
 - (d) Galvanic corrosion
85. Which of the following is mainly used in the internal combustion engine for automobiles ?
- (a) Light diesel oil
 - (b) Kerosene
 - (c) High speed diesel
 - (d) Crude oil
86. Which oil is produced from gas oil cracking units ?
- (a) Light furnace oil
 - (b) Crude oil
 - (c) Heavy oil
 - (d) Furnace oil
87. How is naphthalene designated because of the carbon ring in the molecule ?
- (a) Ketenes
 - (b) Aromatics
 - (c) Cyclo
 - (d) Ring substances
88. Which of the following is an example for by-product gases from metallurgical and petroleum units ?
- (a) Reformed natural gas
 - (b) Coal gas
 - (c) Blast furnace gas
 - (d) Butane
89. The natural gas containing less recoverable condensate ($< 15\text{g/m}^3$) is termed as :
- (a) Dry natural gas
 - (b) Wet natural gas
 - (c) Liquefied natural gas
 - (d) Compressed natural gas
90. Bottled gas is prepared from :
- (a) blast furnace gas and producer gas
 - (b) natural gas and refinery gas
 - (c) coke oven gas and butane
 - (d) combustion gas and propane

CRT (RT-XXI) EXAM-2023

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T.B.C. : CLAS-A-WLA

Test Booklet Series

Serial No.

1015737 TEST BOOKLET



LAW

Time Allowed : Two Hours

Maximum Marks : 300

I N S T R U C T I O N S

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. *DO NOT* write *anything else* on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
5. You have to mark your responses *ONLY* on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. **All** items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator *only the Answer Sheet*. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. Which one among the following provisions of the Constitution of India requires a guardian to provide opportunities for education to his ward between the age of six years and fourteen years?

- (a) Article 21A
- (b) Article 15(6)
- (c) Article 24
- (d) Article 51A

2. Consider the following statements :

- 1. People of India have liberty of faith and worship.
- 2. Morality cannot override the freedom of faith and worship.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

3. Consider the following statements with regard to the Fundamental Right to Freedom of Religion :

- 1. No religious instruction shall be provided in any educational institution wholly maintained out of State funds.
- 2. Religious instructions may be provided in an educational institution established by any trust which requires that religious instructions shall be imparted in that institution even though that institution is administered by the State.

3. No teacher or student attending any educational institution recognized by the State shall be compelled to attend any religious worship that may be conducted.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 1 and 3 only

4. Consider the following statements :

- 1. Only questions of law can be the subject matter of litigation before the Supreme Court under Article 131 of the Constitution of India.
- 2. Any question involving the legal right of a State against the Government of India can be decided only by the Supreme Court.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

5. Which of the following statements is/are correct?

1. The quorum to constitute a meeting of the House of the People is one-tenth of the total membership of the House.
2. If at any time during a meeting of the House of the People there is no quorum, the Speaker has no option but to suspend the meeting.
3. The Chairman of the Council of States has only a casting vote in case of equality of votes.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 3
- (c) 2 and 3
- (d) 3 only

6. Which of the following statements relating to various provisions of the Constitution of India is/are correct?

1. The members of the Committee of Parliament on Official Language are elected by the members of the House of the People and the Council of States in accordance with the system of proportional representation by means of single transferable vote.

2. The Chairman and members of the Official Languages Commission are appointed by the President of India.
3. The representatives of every State in the Council of States are elected by the elected members of the Legislative Assembly of the State in accordance with the system of proportional representation by means of single transferable vote.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

7. Under the Constitution of India, for the Union Territory of Puducherry, the Parliament may by law create which of the following?

1. An elected or partly elected and partly nominated body to function as a Legislature
2. A Council of Ministers

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

8. Which of the following is/are **not** considered to be an amendment/ amendments of the Constitution of India?

1. Law made by the Parliament by exercising powers under Articles 2 and 3
2. Law made by the Parliament with regard to Union Territory referred to in Article 239A

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

9. Consider the following statements in respect of proceedings in the Parliament :

1. The validity of any proceedings in the Parliament can be called in question on the ground of irregularity of procedure.
2. An officer of the Parliament having the power to maintain order in the Parliament shall be subject to the jurisdiction of the Supreme Court in respect of the exercise of power for that purpose.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

10. Consider the following statements :

1. The total number of Ministers in a State cannot exceed fifteen percent of the total number of members of the Legislative Assembly of the State concerned and there cannot be less than twelve Ministers in any State.
2. The Ministers in every State hold office during the pleasure of the Governor.
3. No person below the age of twenty-one years can be appointed as a Minister.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

11. Which one of the following statements is **not** correct?

- (a) A member of a State Public Service Commission holds office up to 62 years of age.
- (b) Any member of a Public Service Commission can be removed from office on the ground of misbehaviour in the prescribed manner.
- (c) In the absence of the Chairman of the Union Public Service Commission, the seniormost member of the Commission performs the duties of the Chairman.
- (d) The Chairman of the Union Public Service Commission is not eligible for any appointment with any government.

12. In which of the following States, it is mandatory to appoint a Minister in charge of tribal welfare with additional charge of the welfare of the Scheduled Castes and Scheduled Tribes?

- (a) Chhattisgarh, Himachal Pradesh and Madhya Pradesh
- (b) Chhattisgarh, Jharkhand, Tripura and Madhya Pradesh
- (c) Assam, Chhattisgarh, Odisha and Madhya Pradesh
- (d) Chhattisgarh, Jharkhand, Madhya Pradesh and Odisha

13. There is **no** express provision for tribunals under which one of the following provisions of the Constitution of India?

- (a) Article 323B
- (b) Article 371D
- (c) Article 217
- (d) Article 227

14. Under the Indian Penal Code, 1860, who among the following is **not** considered a 'public servant'?

- (a) A member of a Panchayat assisting a public servant
- (b) An arbitrator
- (c) Every person paid commission for the performance of any public duty by the government
- (d) An employee of a government company

15. Consider the following statements :

1. The words 'government company' have been used but not defined under the Indian Penal Code, 1860.
2. The words 'movable property' have been used but not defined under the Indian Penal Code, 1860.
3. The words 'electronic record' have been used as well as defined under the Indian Penal Code, 1860.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2
- (c) 2 and 3
- (d) 3 only

16. How many kinds of punishments have been provided under the Indian Penal Code, 1860?

- (a) Two
- (b) Three
- (c) Four
- (d) Five

17. Which of the following causes of death of a person does/do **not** amount to an offence?

1. An act causing death of a person by an intoxicated person
2. An act causing death of a person by someone who caused death unintentionally and did the act with the consent of the person whose death was caused
3. An act done in good faith for the benefit of the person whose death was caused unintentionally without his consent as he was not in a position to give his consent

Select the correct answer using the code given below.

- (a) 1
- (b) 2 only
- (c) 2 and 3
- (d) 3 only

18. Under which one of the following situations, a person can be punished with imprisonment extending up to five years?

- (a) Makes any imputation during the performance of a religious ceremony that any class of persons on account of their religion cannot bear true faith and allegiance to the Constitution of India
- (b) Propagates during a Panchayat meeting that persons belonging to a particular caste be denied of their rights as citizens of India
- (c) Makes an appeal during an election campaign concerning the obligation of any class of persons belonging to a particular region to cause feelings of enmity between such class of persons and other persons
- (d) Makes any imputation during a community meeting that any class of persons on account of their religion will not uphold the sovereignty and integrity of India

19. Selling, distributing or circulating in any manner any obscene book, paper, pamphlet is an offence punishable with imprisonment **except** in which of the following cases?

- 1. Any representation engraved in any ancient monument whether or not covered under Act No. 24 of 1958
- 2. Any obscene book, pamphlet, paper kept bona fide for religious purposes

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

20. Consider the following statements with regard to causing grievous hurt by the use of acid :

- 1. Voluntarily causing partial deformity even of a reversible nature may be punishable with a sentence of imprisonment for life.
- 2. The offender in a case of grievous hurt caused by acid may be imposed fine which has to be just and reasonable to meet the medical expenses of treatment of the victim.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

21. A man who monitors the use of the internet, email or any other form of electronic communication by a woman

1. commits the offence of stalking under the Indian Penal Code, 1860
2. does not commit the offence of stalking under the Indian Penal Code, 1860 if it proves in the court that his conduct was reasonable and justified under the circumstances
3. does not commit the offence of stalking under the Indian Penal Code, 1860 as he claims that he pursued the conduct for detecting a crime

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1, 2 and 3
- (c) 1 and 2 only
- (d) 2 and 3 only

22. In which one of the following kinds of offences, the punishment is different?

- (a) House-trespass in order to commit an offence punishable with imprisonment for life
- (b) House-trespass in order to commit an offence punishable with death
- (c) Grievous hurt caused whilst committing lurking house-trespass
- (d) Lurking house-trespass by night

23. Consider the following statements :

1. A person who obtains custody of a boy aged seventeen years for the purposes of using him for begging is punishable for the offence of kidnapping under Section 363A of the Indian Penal Code, 1860 as the boy was minor.
2. A person who obtains custody of a girl aged seventeen years for the purposes of using her for begging is punishable for the offence of kidnapping under Section 363A of the Indian Penal Code, 1860 as she was minor.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

24. Under the Indian Evidence Act, 1872, which of the following is/are 'document(s)'?

1. A caricature
2. An inscription on a metal plate
3. A plan

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

25. Do the facts not otherwise relevant become relevant in any of the following cases under the Indian Evidence Act, 1872?

1. They become relevant if they are inconsistent with any fact in issue.
2. They do not become relevant if by themselves they make the existence of any fact in issue highly improbable.

Select the correct statement(s) using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

26. Which of the following does/do **not** amount to admission under the Indian Evidence Act, 1872?

1. Statement made by an agent to any party to the proceeding if the court regards him as expressly or impliedly authorized to make the same
2. Statement made by a party to the suit suing in a representative capacity
3. Statement made by a person from whom parties to the suit have derived their interest in the subject matter of the suit

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

27. Consider the following legal propositions under the Indian Evidence Act, 1872 :

1. Confession by an accused while in police custody cannot be proved against him in any case.
2. Confession otherwise relevant becomes irrelevant because of promise of secrecy.
3. Confession otherwise relevant does not become irrelevant in consequence of a deception practised on the accused person for the purpose of obtaining it.

Which of the above is/are correct?

- (a) 1
- (b) 2 only
- (c) 3 only
- (d) 2 and 3

28. Consider the following statements as to relevancy under the Indian Evidence Act, 1872 :

1. A previous conviction is not relevant as evidence of bad character.
2. In a criminal proceeding involving the issue of bad character of the accused, the fact that the accused has a bad character is irrelevant.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

29. Which one among the following statements with regard to the Indian Evidence Act, 1872 is correct?

- (a) Whenever the opinion of any living person is relevant, the grounds on which such opinion is based are not relevant.
- (b) In criminal cases, the fact that the accused is of a good character is irrelevant.
- (c) In civil cases, the fact that the character of any person is such as to affect the amount of damage which he ought to receive is relevant.
- (d) In civil cases, the fact that the character of any person concerned is such as to render probable any conduct imputed to him is relevant.

30. Under the Indian Evidence Act, 1872, the presumption of the court in any proceedings involving secure electronic signature that the secure electronic signature is affixed by subscriber with the intention of signing or approving the electronic record is

- 1. rebuttable
- 2. irrebuttable

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

31. Which of the following statements is/are correct if a married woman has committed suicide within seven years of her marriage?

- 1. The husband and/or his relatives would be liable as abettor(s).
- 2. The court may presume, in the light of all the other circumstances of the case, that the suicide had been abetted by the husband and his relatives.
- 3. The question of presumption in the above case would arise only if it is shown that the husband and/or his relatives had subjected the woman to cruelty.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

32. Which of the following is **not** a duty of an agent to the principal under the Indian Contract Act, 1872?

- (a) To conduct business with skill and diligence
- (b) To communicate with principal in case of difficulty
- (c) To be indemnified against consequences of lawful acts
- (d) To render accounts to the principal on demand

37. *D*, a singer, contracts to sing in *L*'s theatre for two nights every week for two months. On the sixth night, *D* wilfully absents herself after which *L* rescinds the contract. In this respect, which of the following statements is/are correct?

1. *L* must pay *D* for the five nights that she performed.
2. *L* can claim compensation for damage due to non-fulfilment of contract.
3. *L* cannot claim compensation since he himself rescinded the contract.

Select the correct answer using the code given below.

- (a) 1 only
(b) 1 and 3
(c) 1 and 2
(d) 2 only

38. The promisee in a contract of indemnity is entitled to recover

1. all damages which he may be compelled to pay in a suit to which the promise of indemnity applies
2. all costs which he may be compelled to pay in a suit in bringing or defending it if the promisor authorized him to do so
3. all sums which he may have paid under terms of any compromise of any suit if he was authorized to do so

Select the correct answer using the code given below.

- (a) 1 and 2 only
(b) 3 only
(c) 1 and 3 only
(d) 1, 2 and 3

39. *T* sells, by auction to *E*, old coins, which he knows to be fake. This contract is

- (a) void
(b) voidable
(c) valid
(d) agreement against public policy

40. Which one among the following is **not** a mode of revocation of a proposal made by *G* to *Y*?

- (a) By death of *G*, only if the fact of his death comes to the knowledge of *Y* before acceptance
(b) By failure of *Y* to fulfil a condition precedent to acceptance
(c) By lapse of time prescribed in the proposal
(d) By insanity of *G* whether or not the fact comes to the knowledge of *Y* before acceptance

41. When one person signifies to another her willingness to do or to abstain from doing anything, with the view to obtain the assent of that other to such act or abstinence, this is

- (a) proposal
- (b) promise
- (c) reciprocal promise
- (d) consideration for promise

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 2 and 3
- (c) 2 only
- (d) 3 only

42. Which of the following statements in respect of a 'holder in due course (HIDC)' under the Negotiable Instruments Act, 1881 is/are **not** correct?

1. HIDC is a person who becomes the possessor of a negotiable instrument for consideration.
2. HIDC is the bearer, payee or indorsee of an instrument payable to order, after the amount mentioned in it became payable.
3. HIDC is a person who obtained the instrument without having sufficient cause to believe that any defect exists in the title of the person from whom he derived his title.

43. Which one of the following judgments relates to dishonour of cheque due to 'stop payment' order given to the bank by the drawer of cheque under the Negotiable Instruments Act, 1881?

- (a) *MMTC Ltd. v. MEDCHL Chemicals & Pharma (P) Ltd.* (2002) 1 SCC 234
- (b) *G. J. Raja v. Tejraj Surana*, AIR 2019 SC 3817
- (c) *Surinder Singh Deswal v. Virender Gandhi* (2020) 2 SCC 514
- (d) *Laxmi Dyechem v. State of Gujarat* (2012) 13 SCC 375

44. In order to reduce delay in legal proceedings pertaining to dishonour of cheques, the Negotiable Instruments Act, 1881 was amended in 2018. Which of the following provisions was/were introduced with the said amendment?

1. The power of the court to direct interim compensation
2. The power of the appellate court to order payment pending appeal against conviction
3. The power of the court to try cases summarily

Select the correct answer using the code given below.

- (a) 2 and 3
- (b) 3 only
- (c) 2 only
- (d) 1 and 2

45. Which one of the following statements is **not** correct in respect of material alteration of a negotiable instrument?

- (a) Any material alteration renders the same voidable as against anyone who is a party thereto at the time of making such alteration.
- (b) A material alteration made in order to carry out the common intention of the original parties can be said to be valid.

(c) An alteration made by an indorsee discharges his indorser from all liabilities to him in respect of the consideration thereof.

(d) An alteration made by the holder, by crossing it generally, is not considered to be a material alteration.

46. *M* owned a land jointly with her minor son *S*. *M* sold the property to *B*. *S*, on attaining majority, claimed the contract to be void. After the suit was decreed in favour of *S*, *S* dies. *M* as class I heir of *S* inherits the property. *B* now claims the property from *M* as the sole owner. *B*'s claim is

(a) valid, as per Section 43 of the Transfer of Property Act, 1882

(b) valid, as after the death of *S*, *M* becomes the sole owner

(c) not valid, since the court had decreed the suit of *S*

(d) not valid, as *B* did not acquire the property under fraudulent or erroneous belief

47. X transfers property to A, a minor, and his intended wife successively for their lives, and, after the death of the survivor, for the second son of the intended marriage for life, and after his death, for the youngest child of A. This transfer is

- (a) valid, as A is living when the transfer is made
- (b) valid, as the Transfer of Property Act, 1882 (TPA) permits transfer for benefit of unborn person
- (c) not valid, since the rights of the second son do not extend to X's remaining interest in the property under the TPA
- (d) not valid, since the TPA expressly provides for transfer between living persons

48. X, a mortgagor, transfers his field absolutely to Y, the mortgagee, subject to the condition that Y will retransfer it to X upon payment of mortgage money. This form of mortgage is

- (a) usufructuary mortgage
- (b) English mortgage
- (c) mortgage by conditional sale
- (d) mortgage by deposit of title deeds

49. Z creates a life interest in respect of all his properties in favour of S and provides for absolute transfer of the same to S's first unborn child U, who is to get the property on attaining majority. U dies at the age of 10 years. The property after U's death

- (a) reverts back to Z or his legal heirs
- (b) belongs to the legal heirs of U
- (c) can be claimed by S, or his legal heirs
- (d) belongs to Z as the transfer is void *ab initio*

50. G transfers his property to T for life and then to the unborn children of T with the condition that any female child born is to get only a life interest. Under the Transfer of Property Act, 1882 (TPA), the said transfer is

- (a) void, since it is hit by the rule against perpetuity
- (b) valid, since transfer to class of heirs is permissible under the TPA
- (c) void, since life interest in respect of unborn class of persons is not permitted under the TPA
- (d) valid in respect of the interest of the son(s), but fails in respect of the interest of the daughter(s)

51. *F* institutes a suit before the civil court on 1.1.2023 challenging the title of his brother *E* in a property. On 31.1.2023, *E* sells the property to a friend *Z*. The matter was then transferred on 1.4.2023 to a different court for want of jurisdiction. The said sale of the property is

- (a) valid, since the suit instituted was not before a proper court
- (b) valid, since the Transfer of Property Act, 1882 does not prohibit such transfers expressly
- (c) void, since the matter was pending before the court when the sale was made
- (d) void, since the transfer was not made on good faith

52. Which one of the following documents needs to be compulsorily registered under Section 3 of the Registration Act, 1908?

- (a) Instrument other than will which purports to create, declare or extinguish any right, title or interest to or in immovable property
- (b) Lease of immovable property not exceeding one year
- (c) Document containing contract to transfer for consideration any immovable property as part performance under Section 53A of the Transfer of Property Act, 1882
- (d) Will

53. The registering officer under the Registration Act, 1908 may not refuse to register the document which

- (a) is in a language that he does not understand and which is not commonly used in the district
- (b) displays interlineation, blank, erasure or alteration
- (c) being a sale deed relates to immovable property if it does not contain a description of such property sufficient to identify the same
- (d) the Registrar, at his discretion, thinks that such document cannot be registered

54. Who among the following persons is **not** authorized to present documents for registration under Section 32 of the Registration Act, 1908?

- (a) Representative or assign of a person executing or claiming under the same
- (b) A person authorized by power-of-attorney executed before or authenticated by a Notary Public if the principal at the time resides in India
- (c) A person authorized by power-of-attorney executed before or authenticated before or authenticated by the Registrar within whose district the principal resides
- (d) Agent of the concerned person

59. Which one of the following statements with regard to return of a plaint under the Code of Civil Procedure, 1908 is **not** correct?

- (a) Only at the initial stage of the suit, a plaint can be returned to be presented to the court in which the suit should have been instituted.
- (b) An appellate court has power to set aside a decree passed in a suit and return the plaint to the court in which the suit should have been instituted.
- (c) While returning a plaint, the judge must endorse thereon the date of its presentation and return, the name of the party presenting it and brief statement of reasons for returning the plaint.
- (d) The court returning the plaint on the ground of lack of jurisdiction has power to fix a date for the appearance of the parties in the court to which the plaint is proposed to be transferred.

60. Consider the following statements with regard to the Banking Regulation Act, 1949 :

- 1. The Central Government has power to suspend the operation of any of the provisions of the Act for a total period not exceeding one year.
- 2. The power to suspend the operation of the provisions of the Act can be exercised by the Governor of the Reserve Bank of India in certain cases for certain period.
- 3. An order of suspension of the provisions of the Act by the Central Government cannot be for more than sixty days.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

61. The term 'substantial interest' for the purposes of the Banking Regulation Act, 1949 may be in relation to

1. a company
2. a firm

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

62. The provisions of the Banking Regulation Act, 1949 with respect to speedy disposal of winding-up proceedings have overriding effect over the provisions of which of the following Acts if they are inconsistent with the aforesaid provisions?

1. The Companies Act, 1956 (now 2013)
2. The Code of Civil Procedure, 1908
3. The Code of Criminal Procedure, 1973

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

63. Which among the following has exclusive jurisdiction to entertain and decide any claim made by or against a banking company which is being wound up?

- (a) The Reserve Bank of India
- (b) The High Court
- (c) The National Company Law Tribunal
- (d) The National Company Law Appellate Tribunal

64. Consider the following legal propositions with respect to the Limitation Act, 1963 :

1. Every suit not instituted within the prescribed period of limitation shall be dismissed subject to Sections 4 to 24 of the Limitation Act, 1963 even if the plea of bar of limitation has not been raised.
2. Where once time has begun to run, no subsequent disability to institute a suit stops it.

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

65. Consider the following statements :

1. The Code of Criminal Procedure, 1973 is not an exhaustive code containing the entire law pertaining to investigation and trial of all offences.
2. The words and expressions used but not defined in the Code of Criminal Procedure, 1973 have to be read in the light of the words and expressions given in the Indian Penal Code, 1860.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

66. With regard to the powers of Magistrates to pass sentences, which one of the following statements is **not** correct?

- (a) The Court of Chief Judicial Magistrate cannot pass a sentence of imprisonment exceeding ten years.
- (b) The Court of Magistrate of First Class cannot pass a sentence of imprisonment exceeding three years.
- (c) The Court of Magistrate of Second Class cannot pass a sentence of imprisonment exceeding one year.
- (d) The Court of Chief Metropolitan Magistrate cannot pass a sentence of imprisonment exceeding seven years.

67. Every High Court has inherent power to

1. make such orders as might be necessary to give effect to any order under the Code of Criminal Procedure, 1973
2. secure the ends of justice
3. prevent abuse of the process of any court

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

68. Which of the following statements with regard to trials under the Code of Criminal Procedure, 1973 is/are correct?

1. For up to three offences of the same kind, the accused may be tried at one trial.
2. The three offences for which the accused may be tried at one trial must have been committed within a span of six months.
3. The three offences may be in respect of different persons but punishable with the same amount of punishment under the same Section of the Indian Penal Code, 1860.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 2 and 3
- (d) 1 and 3

69. In any inquiry or trial under the Code of Criminal Procedure, 1973, a previous conviction or acquittal may be proved by which of the following?

1. By an extract certified under the hand of the officer having the custody of the records of the court in which such conviction or acquittal was held, to be a copy of the sentence or order
2. In case of conviction, by a certificate signed by the officer in charge of the jail in which the punishment was undergone or by production of the warrant of commitment under which the punishment was suffered

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

70. Which of the following statements is/are correct?

1. A person tried by a court of competent jurisdiction for an offence shall not be liable to be tried again for the same offence irrespective of his conviction or acquittal.
2. A person tried by a court of competent jurisdiction for an offence shall not be liable to be tried again on the same facts for any other offence for which a different charge from the one made against him might have been made under Section 221(1) of the Code of Criminal Procedure, 1973 (CrPC) or for which he might have been convicted under Section 221(2), the CrPC.
3. The State Government may give consent for subsequent trial of any person for any distinct offence for which separate charge might have been made against him at the former trial under Section 220(1), the CrPC.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 1 and 3 only

74. The Securities and Exchange Board of India (SEBI), in June 2023, has amended which one of the following Regulations in continuation of mandating the Business Responsibility and Sustainability Reporting in India?

- (a) The SEBI (Issue of Capital and Disclosure Requirements) Regulations, 2018
- (b) The SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015
- (c) The SEBI (Issue and Listing of Non-Convertible Securities) Regulations, 2021
- (d) The SEBI (Alternative Investment Funds) Regulations, 2012

75. Which of the following entities is/are mandated to redress investor's grievances failing which it would be liable to penalty prescribed under Section 15C of the Securities and Exchange Board of India (SEBI) Act, 1992?

1. Any listed company
2. Intermediaries
3. Depositories

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 2 only
- (d) 1 and 3 only

76. Which one of the following is **not** considered to be a default of stock-brokers under Section 15F of the Securities and Exchange Board of India (SEBI) Act, 1992?

- (a) Failure to issue contract notes as specified by the stock exchange of which the broker is a member
- (b) Failure to deliver any security in the manner and within the specified period as provided in the Regulations
- (c) Failure to comply with the investment adviser's roles as prescribed by the Regulations
- (d) Charges brokerage in excess of the amount specified in the Regulations

77. An Asset Reconstruction Company is registered under which one of the following Acts?

- (a) The Companies Act, 2013
- (b) The Banking Regulation Act, 1949
- (c) The Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002
- (d) The Reserve Bank of India Act, 1934

78. A mortgagor's right of redemption under the Transfer of Property Act, 1882 cannot be clogged and in order to sell the mortgaged property, court's intervention and appointment of receiver by the court are mandatory. This statement is

- (a) correct, irrespective of the kind of mortgage that the parties have executed
- (b) correct, but has created an exception for enforcement of security interest under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002
- (c) not correct, since there are different kinds of mortgages that have evolved
- (d) not correct, since the application against measures to recover secured debts under the SARFAESI Act, 2002 has to be presented before the court

79. The Central Register is kept under Section 22 of the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002 and is **not** maintained for entering into transactions relating to

- (a) enforcement of security interest
- (b) securitization of financial assets
- (c) reconstruction of financial assets
- (d) creation of security interest

80. Which one of the following is **not** a function of an Asset Reconstruction Company under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002?

- (a) Act as an agent for any bank for recovering their dues
- (b) Act as a receiver if appointed by any court or tribunal
- (c) Act as a manager of secured assets, the possession of which has been taken over by the secured creditor
- (d) Act as a manager even though such acting may give rise to pecuniary liabilities

81. The Supreme Court, in *Phoenix ARC Private Ltd. v. Vishwa Bharati Vidya Mandir* (Civil Appeal Nos. 257–259 of 2022), has held that a writ petition is not maintainable against an Asset Reconstruction Company (ARC) under which of the following grounds?

1. An ARC cannot be said to perform public functions.
2. The act of lending money by the bank/ARC is done during the course of a commercial transaction under a contract.
3. If the borrower is aggrieved by an action of the bank/ARC, he must avail the remedies under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

82. A borrower's right preserved in an auction sale held under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002 is preserved till

- (a) the completion of sale and delivery of possession of the secured asset
- (b) the date of publication of notice for public auction

(c) the transfer of secured asset in favour of the auction purchaser by registration of sale certificate

(d) the date of auction sale of the secured asset

83. The Central Government has power to issue directions to any authority for the exercise of powers and performance of the functions under the Prevention of Money Laundering Act, 2002 having regard to

1. territorial area
2. persons and cases
3. any other criteria specified by it

Which of the above criteria is/are **not** to be considered?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

84. Does the Prevention of Money Laundering Act, 2002 prescribe the following punishments for the offence of money laundering?

1. A person found guilty of the offence of money laundering is punishable with a minimum of three years' rigorous imprisonment.
2. Where the proceeds of the crime involved in money laundering relate to murder covered under Section 302 of the Indian Penal Code, 1860, the punishment may extend to seven years of imprisonment.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

85. Where any property or record is found in the possession of any person in the course of a search under the Prevention of Money Laundering Act, 2002, which of the following presumptions can be made?

1. The record or property belongs to such person.
2. The contents of such record are true.
3. The signature and every other part of the record purporting to be in the handwriting of any particular person are in that person's handwriting.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

86. The offences covered under which of the following Acts may be investigated under the National Investigation Agency Act, 2008?

1. The Atomic Energy Act, 1962
2. The Anti-Hijacking Act, 1982
3. The Weapons of Mass Destruction and their Delivery Systems (Prohibition of Unlawful Activities) Act, 2005

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

87. Which of the following statements with regard to the National Investigation Agency Act, 2008 is/are correct?

1. The Central Government can act *suo motu* by referring a case to the National Investigation Agency for investigation.
2. The Central Government is not bound to refer a case for investigation on the request of a State Government.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

88. Consider the following statements with regard to the National Investigation Agency Act, 2008 :

1. The National Investigation Agency while investigating a case cannot transfer that case to the State Government.
2. While investigating any scheduled offence, the National Investigation Agency has power to investigate any other offence also allegedly committed by the accused which is connected with the scheduled offence.

3. While investigating any scheduled offence, the National Investigation Agency has no power to investigate any other offence also allegedly committed by the accused which is connected with the scheduled offence.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3
- (d) 1 and 2

89. Which one of the following statements with regard to the National Investigation Agency Act, 2008 is **not** correct?

- (a) Any question relating to the jurisdiction of the Special Court has to be decided by the High Court.
- (b) The Special Court is presided over by a judge appointed by the Central Government on the recommendation of the Chief Justice of the High Court.
- (c) Only a Sessions or Additional Sessions Judge is qualified to be appointed as a judge of the Special Court.
- (d) The scheduled offences can be tried only by the Special Court.

110. Which of the following in relation to a person, charged with an offence punishable under the Prevention of Corruption Act, 1988, to be a competent witness is/are correct?

1. Shall not be called as a witness except at his own request
2. Shall not be asked under any circumstance to show that he has committed any offence other than the one with which he is charged
3. May be asked about his bad character if he has given evidence against any other person charged with the same offence

Select the correct answer using the code given below.

- (a) 1 and 3
- (b) 1 only
- (c) 3 only
- (d) 1 and 2

111. A Special Judge appointed under Section 3 of the Prevention of Corruption (PC) Act, 1988 can try which of the following offences?

1. Any offence punishable under the PC Act, 1988
2. An attempt to commit an offence punishable under the PC Act, 1988
3. An abetment to commit an offence punishable under the PC Act, 1988

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 only

112. Section 6A of the Delhi Special Police Establishment Act, 1946 was held to be unconstitutional by the Supreme Court in which one of the following cases?

- (a) *Ritu Chhabaria v. Union of India* [Writ Petition (Criminal) No. 60 of 2023]
- (b) *Central Bureau of Investigation v. R. R. Kishore* [CRL Appeal No. 2763 of 2023]
- (c) *Soundarajan v. State Rep. by the Inspector of Police Vigilance Anti-corruption Dindigul* [Criminal Appeal No. 1592 of 2022]
- (d) *Common Cause (A Regd. Society) v. Union of India* [Writ Petition (Civil) No. 683 of 2014]

113. The Central Government is to appoint officers for the post of Superintendent of Police and above except Director under the Delhi Special Police Establishment (DSPE) Act, 1946 on the recommendation of a committee. Who among the following is **not** included in the committee?

- (a) The Vigilance Commissioner
- (b) The Secretary to the Government of India in charge of the Department of Personnel
- (c) The Secretary to the Government of India in charge of the Ministry of Home
- (d) The Chief Justice of India

114. Where any law provides that information shall be in writing, such requirement shall be deemed to have been satisfied if such information is

1. rendered or made available in any electronic form
2. accessible so as to be usable for a subsequent reference

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

115. Which one of the following statements is **not** correct with regard to the powers of the Controller of Certifying Authorities (Controller) under the Information Technology Act, 2000?

- (a) The Controller has power to suspend a licence issued to a person to issue Electronic Signature Certificate.
- (b) The Controller has power to suspend a licence for a week issued to a person to issue Electronic Signature Certificate without any notice to the licensee.
- (c) The suspension of a licence issued to a person to issue Electronic Signature Certificate by the Controller for a period of one month without any notice to the licensee is permissible.

(d) The revocation of a licence issued to a person to issue Electronic Signature Certificate by the Controller is permissible if an opportunity of hearing has been provided to the licensee to show cause against the proposed revocation.

116. Consider the following statements with regard to the Information Technology Act, 2000 :

1. A company cannot apply for grant of a licence to issue Digital Signature Certificate.
2. Every application for renewal of a licence granted for issue of Digital Signature Certificate must be made at least one month before the expiry of the period of validity of the licence.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

117. Appeals against the orders of the Controller of Certifying Authorities under the Information Technology Act, 2000 would lie before which of the following?

- (a) The National Company Law Tribunal
- (b) The National Company Law Appellate Tribunal
- (c) The Telecom Disputes Settlement and Appellate Tribunal
- (d) The High Court

- 118.** The constitutional validity of the Central Vigilance Commission (Amendment) Act, 2021 and the Delhi Special Police Establishment (Amendment) Act, 2021 was decided in which one among the following cases?
- (a) *Dr. Jaya Thakur v. Union of India*, the Supreme Court judgment dated July 11, 2023
- (b) *Vijay Rajmohan v. State Represented by the Inspector of Police, CBI, ACB, Chennai, Tamil Nadu*, the Supreme Court judgment dated October 11, 2022
- (c) *Jagtar Singh v. The State of Punjab*, the Supreme Court judgment dated March 23, 2023
- (d) *Neeraj Dutta v. State (Govt. of NCT of Delhi)*, the Supreme Court judgment dated March 17, 2023
- 119.** Which of the following is **not** a function of the Central Vigilance Commission (CVC) under Section 8 of the CVC Act, 2003?
- (a) Give directions excluding the directions to dispose any case in a particular manner to the Delhi Special Police Establishment (DSPE) for the purpose of discharging the responsibility under the DSPE Act, 1946
- (b) Tender advice to the State Government on such matters as may be referred to it by that government
- (c) Exercise superintendence over the vigilance administration of various Ministries of the Central Government
- (d) Inquire or investigate into any complaint against an official belonging to any government company controlled by the Central Government
- 120.** The Appointing Authority (AA) of the Department of Personnel and Training, while granting sanction for prosecuting a public servant X under Section 19 of the Prevention of Corruption (PC) Act, 1988 consulted the Central Vigilance Commission (CVC). X challenged the validity of the sanction on the ground that the AA acted as per dictation of the CVC. The said order is
- (a) valid, because there is no evidence that the CVC acted *mala fide*
- (b) not valid, since the power to sanction prosecution of a public officer is vested in the AA under the PC Act, 1988
- (c) valid, because the CVC is empowered to review the progress of applications pending for sanction of prosecution
- (d) not valid, because the CVC has no power to advise on such matters

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी.बी.सी. : **BNYR-B-GNS**

परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1930333

परीक्षण पुस्तिका
APFC—सामान्य अध्ययन



समय : दो घण्टे

पूर्णांक : 300

अ नु दे श

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि **OMR** उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम **A, B, C** या **D** को ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर और कुछ न लिखें।
4. इस परीक्षण पुस्तिका में **120** प्रश्नांश (प्रश्न) दो भागों में दिए गए हैं : **भाग—A** और **भाग—B**। **भाग—B** में प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए केवल एक ही प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. सभी प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर केवल उत्तर-पत्रक अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अन्त में संलग्न हैं।
10. गलत उत्तरों के लिए दण्ड :
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए गलत उत्तरों के लिए दण्ड दिया जाएगा।
(i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दण्ड के रूप में काटा जाएगा।
(ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे गलत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दण्ड दिया जाएगा।
(iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दण्ड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

PART—B

21. Which one among the following observations pertaining to the works of Nineteenth-Twentieth Century archaeologists is **not** correct?
- (a) Alexander Cunningham, the first Director-General of the Archaeological Survey of India, was of the view that the history of India began with the origins of the Indus Valley Civilization.
 - (b) John Marshall generally adopted the method of excavation along regular horizontal units and ignored the stratigraphy of the site.
 - (c) R. E. M. Wheeler first recognized the necessity to follow the stratigraphy of the mound rather than dig along horizontal lines.
 - (d) Amalananda Ghosh was the first to identify similarities between pre-Harappan and mature-Harappan cultures.
22. Which one of the following was an important contributing factor in the rise of Magadha as the most powerful Mahajanapada between the Sixth and the Fourth Centuries BCE?
- (a) Easy access to rich gold mines
 - (b) Superior cavalry
 - (c) An agriculturally productive region
 - (d) Republican system of governance
23. Which one among the following statements about the Kailashanatha temple at Ellora is **not** correct?
- (a) The temple was carved out of rocks in the Eighth Century CE.
 - (b) The temple is dedicated to Lord Shiva.
 - (c) The superstructure of the temple corresponds to the Nagara style.
 - (d) The temple has both Shaiva and Vaishnava sculptures.
24. Which one of the following statements about ancient Indian pottery is correct?
- (a) Northern Black Polished Ware (NBPW) refers to a type of pottery found from archaeological sites in India dating back to 600 BCE.
 - (b) Painted Grey Ware (PGW) refers to a type of pottery found over a large part of South India coinciding with the Sangam period.
 - (c) Ochre Coloured Pottery (OCP) sites are located in South India only.
 - (d) Black-and-Red Ware (BRW) is never found at Neolithic sites.

25. Which one of the following pairs is **not** correctly matched?

- | <i>(Ancient Text/Term)</i> | <i>(Meaning)</i> |
|----------------------------|--|
| (a) Samarangana-Sutradhara | : A scientific work on ancient Indian architecture |
| (b) Harmika | : A style of temple architecture that originated under the Chola Kings |
| (c) Vimana | : A striking feature of the Dravidian style of temples |
| (d) Kutagarashala | : A hut with a pointed roof where travelling mendicants halted |

26. What is the time limit prescribed under the provisions of the Employees' Compensation Act, 1923 from the date of reference within which the Commissioner is required to dispose of the matter relating to compensation and intimate the decision to the employee?

- (a) Six months
- (b) One year
- (c) Two months
- (d) Three months

27. What is the minimum number of employees employed by an establishment functioning without the aid of power and is registered under the Cooperative Societies Act, 1912 that shall require it to come within the purview of the Employees' Provident Funds and Miscellaneous Provisions Act, 1952?

- (a) Fifty
- (b) One hundred
- (c) One hundred twenty
- (d) One hundred fifty

28. Any question relating to disablement shall be determined by which one of the following authorities under the Employees' State Insurance Act, 1948?

- (a) The Insurance Medical Practitioner
- (b) The Social Security Officer
- (c) The Medical Board
- (d) The Medical Appeal Tribunal

29. What is the amount of compensation that is to be paid to an employee who is totally and permanently disabled as a result from injury under the provisions of the Employees' Compensation Act, 1923? (*Hints* : Monthly wages drawn were ₹ 22,500 and relevant factor is 159.80)

- (a) ₹ 14,38,200
- (b) ₹ 23,97,000
- (c) ₹ 21,57,300
- (d) ₹ 7,67,040

30. What is the minimum number of employees required to be working in an establishment, so that the employer, with the authorization of the majority of the employees of the establishment, may apply to the Central Government to authorize the employer to create a separate Provident Fund Account for the employees under the Employees' Provident Funds and Miscellaneous Provisions Act, 1952?

- (a) One hundred
- (b) Three hundred
- (c) Five hundred
- (d) One thousand

31. Following are the Central Federations of Trade Unions of Workers formed in India :

1. Indian National Trade Union Congress (INTUC)
2. All India Trade Union Congress (AITUC)
3. Self-Employed Women's Association (SEWA)
4. United Trade Union Congress (UTUC)
5. Centre of Indian Trade Unions (CITU)
6. Bharatiya Mazdoor Sangh (BMS)

Which one of the following is the correct sequence of their formation from the earliest to the latest?

- (a) 2, 1, 4, 6, 5, 3
- (b) 2, 1, 3, 4, 6, 5
- (c) 1, 2, 5, 4, 3, 6
- (d) 1, 3, 2, 4, 5, 6

32. Which one of the following core conventions adopted by the International Labour Organization (ILO) has **not** been ratified by India?

- (a) The Forced Labour Convention (No. 29)
- (b) The Equal Remuneration Convention (No. 100)
- (c) The Freedom of Association and Protection of the Right to Organize Convention (No. 87)
- (d) The Discrimination (Employment and Occupation) Convention (No. 111)

33. Suppose there are five trade unions, namely A, B, C, D and E functioning in an establishment currently employing 1100 workmen. The membership strength of each union is as follows :

Union A	:	100
Union B	:	370
Union C	:	110
Union D	:	275
Union E	:	80

Based on the strength of membership, which of the above unions can be registered under the Trade Unions Act, 1926?

- (a) All the unions
- (b) Unions A, B, C and D only
- (c) Unions B, C and D only
- (d) Unions B and D only

34. Registration of trade unions of workers under the Trade Unions Act, 1926 is

- (a) optional
- (b) compulsory
- (c) optional for workers working in non-public utility services
- (d) compulsory for workers working in public utility services

35. The Right of workers to resort to strike is the

- (a) Fundamental Right
- (b) Statutory Right
- (c) Common Law Right
- (d) Equitable Right

36. PQ and RS are chords on a circle centred at O . Suppose A is the point of intersection of PQ and RS . Which of the following statements is/are correct?

1. If A and O coincide, then the four parts of the circle produced by the chords shall always have equal areas.
2. If A and O do not coincide, then two of the four parts of the circle produced by the chords shall always have equal areas.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

37. P, Q, R, S and T are five friends. The mean of weights of P, Q, R and S is 50 kg, whereas the mean of weights of Q, R, S and T is also 50 kg. Which of the following statements is/are correct?

1. The weight of T is 50 kg.
2. The weights of P and T are equal.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

38. P, Q, R, S, T, U, V and W are sitting in a row facing North. P and S are neighbours; W is a neighbour of both Q and U ; T is a neighbour of R and V . If there are four people between P and V , how many people are there between P and R ?

- (a) 1
- (b) 3
- (c) 5
- (d) 6

39. The angles of elevation of the top of a tower from the top and bottom of a 10 metres tall building are 30° and 45° respectively. Approximately what is the height of the tower in metres from the top of the building (given that $\sqrt{3} = 1.73$)?

- (a) 10.65
- (b) 13.41
- (c) 13.65
- (d) 15.41

40. A multiple-choice question paper has 50 questions. Each question has got four options, namely A, B, C and D . Each correct answer carries 4 marks and each wrong answer carries -1 mark. A candidate decides to tick in the pattern

$A, B, C, D, A, B, C, D, A, B, C, D, \dots$

and so on starting from Question No. 1, till the end. If option (C) is the correct answer in each question, then what is the total score of the candidate?

- (a) 6
- (b) 8
- (c) 10
- (d) 12

53. A train starting from rest with a uniform acceleration attains a speed of 108 km/h in 5 minutes. The distance covered by the train in attaining the speed is

- (a) 9000 m
- (b) 4500 m
- (c) 355 m
- (d) 108 m

54. An object is placed in front of a concave mirror at infinity. Which one of the following is correct for its image?

- (a) A real and inverted image would be formed at the focal point.
- (b) A virtual and inverted image would be formed at the focal point.
- (c) A real and erect image would be formed at infinity.
- (d) A virtual and erect image would be formed at the focal point.

55. The main cause of ocean acidification is

- (a) carbon dioxide
- (b) carbon monoxide
- (c) hydrogen sulfide
- (d) chlorofluorocarbon

56. Which of the following statements regarding the Ordinance-making power of the Governor is/are **not** correct?

1. It is a discretionary power and does not entail the advice of the Ministers.
2. The Ordinance-making power of the Governor is confined to subjects in all the three Lists of Schedule VII.
3. With regard to repugnancy with a Union Law relating to the concurrent subjects, the Governor's Ordinance will prevail notwithstanding repugnancy, if the Ordinance had been made in pursuance of 'instructions' of the President of India.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 2 and 3 only
- (d) 3 only

57. Which of the following statements about curative petition is/are correct?

1. It can be entertained by the Supreme Court of India only.
2. It can be entertained by the Supreme Court of India and the High Courts of India.
3. Certification by a Senior Advocate is necessary to file a curative petition.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 3 only
- (c) 2 and 3
- (d) 1 and 3

58. Consider the following statements :

1. The Department of Economic Affairs is a nodal agency of the Government of India to formulate and monitor the country's economic policies and programmes that have a bearing on the domestic and international aspects of economic management.
2. The principal responsibility of the Department of Economic Affairs is the preparation and presentation of the Union Budget (including the Railway Budget) before the Parliament, and the Budgets for Union Territories and States under the President's Rule.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

59. Which of the following statements regarding the District Planning Committee and Metropolitan Planning Committee is/are correct?

1. In case of the District Planning Committee, at least $\frac{4}{5}$ th of the members shall be elected by the elected members of the district level Panchayat and of the Municipalities in the district from amongst themselves. Their proportion would be in accordance with the ratio of urban to rural population of the district.

2. In case of the Metropolitan Planning Committee, at least $\frac{2}{3}$ rd of the members of the committee shall be elected by the elected members of the Municipalities and the Chairpersons of the Panchayats in the Metropolitan area from amongst themselves. The proportion of the seats to be shared by them would be based on the ratio of the population of the Municipalities and of the Panchayats in the area.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

60. Which of the following are the major objectives of setting up of Biotechnology Industry Research Assistance Council (BIRAC)?

1. To foster innovations and entrepreneurship
2. To promote affordable innovations in key social sectors
3. To empower startups and small and medium enterprises
4. To encourage young investigators for entrepreneurial and managerial development in SMEs in biotechnology

Select the correct answer using the code given below.

- (a) 1, 2 and 3 only
- (b) 1 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

61. Which one of the following recommended that the public health expenditure of the Union and State Governments together should be increased in a progressive manner to reach 2.5 percent of GDP by the year 2025?

- (a) The National Commission on Macroeconomics and Health, 2005
- (b) The Parliamentary Standing Committee on Health, 2022
- (c) The Fifteenth Finance Commission
- (d) The Kasturirangan Committee

62. Kautilya in his *Arthashastra* describes the availability of varieties of pearls from the

- (a) Madura region hills
- (b) Shravanabelagola hills
- (c) Tamraparni river in the Pandyan Kingdom
- (d) Kaveri river in the Palakkad region

63. Which one of the following pairs of Dynasty and King of the Vijayanagara Empire is **not** correctly matched?

- (a) Sangama Dynasty—Harihara II
- (b) Saluva Dynasty—Tikka
- (c) Aravidu Dynasty—Tirumala
- (d) Tuluva Dynasty—Gunda

64. 'Vengi', the capital city of the Eastern Chalukyas, is identified with which one of the following places?

- (a) Peddavegi
- (b) Erumaiyur
- (c) Salihundam
- (d) Bhattiprolu

65. Who among the following was the first elected King of the Pala Dynasty in Kamarupa?

- (a) Govindapala
- (b) Dharmapala
- (c) Brahmapala
- (d) Jayapala

66. Freedom fighter Agadhu Samantra (Orissa) served the British-Indian Army. Later on he left the British service to join the Indian National Army (INA) in 1942. Where was he deputed by INA as a Naik in the First Bahadur Group?

- (a) Andaman-Nicobar
- (b) Burma Front
- (c) Arunachal Pradesh
- (d) Assam

67. Match List-I with List-II and select the correct answer using the code given below the Lists :

<i>List-I</i>	<i>List-II</i>
<i>(Central Trade Union Federation)</i>	<i>(Political Party)</i>
A. Centre of Indian Trade Unions	1. Indian National Congress
B. Indian National Trade Union Congress	2. Bharatiya Janata Party
C. Bharatiya Mazdoor Sangh	3. Communist Party of India
D. All India Trade Union Congress	4. Communist Party of India (Marxist)

Code :

(a)	A	B	C	D
	4	1	2	3
(b)	A	B	C	D
	4	2	1	3
(c)	A	B	C	D
	3	2	1	4
(d)	A	B	C	D
	3	1	2	4

68. The provision for constituting an 'Expert Committee' finds place under which one among the following legislations?

- (a) The Child and Adolescent Labour (Prohibition and Regulation) Act, 1986
- (b) The Contract Labour (Regulation and Abolition) Act, 1970
- (c) The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
- (d) The Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979

69. Which one of the following is provided under the Third Schedule of the Factories Act, 1948?

- (a) List of Occupational Hazards
- (b) List of Occupational Diseases
- (c) List of Notifiable Diseases
- (d) List of Industries Involving Hazardous Processes

70. Under the provisions of the Mines Act, 1952, the Special Officer can enter a mine for the purpose of surveying, levelling and measuring, after giving prior notice to the Manager at least how many days in advance?

- (a) Three days
- (b) Five days
- (c) Seven days
- (d) Fourteen days

71. Under the provisions of the Payment of Wages Act, 1936, every employer of an establishment has to maintain the registers and records regarding the wages paid and deductions made, if any, from the wages, and preserve the same from the date of last entry for a period of

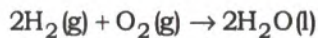
- (a) five years
- (b) seven years
- (c) two years
- (d) three years

72. There are seven hemispherical containers of radius R metres each and each of them is fully filled with water. The water in these is transferred to a hemispherical container of radius equal to 1.5 times of R such that a maximum number of smaller containers get emptied out. How many smaller containers remain fully filled when the larger container gets fully filled?

- | | |
|-------|-------|
| (a) 5 | (b) 4 |
| (c) 3 | (d) 2 |

81. Which of the following is **not** a capital expenditure?
- ₹ 5,000 spent to remove a worn-out part. This part needs to be replaced with a new engine
 - Expenses on foreign tour for purchasing a new machine
 - Freight and insurance of the machinery purchased
 - Amount spent on repairing a secondhand machine before put to use
82. Which one of the following is **not** a correct IP address?
- 201.54.122.107
 - 102.45.221.710
 - 102.45.201.22
 - 250.234.123.124
83. In mesh topology, if we have six computers, how many links must be there?
- 6
 - 12
 - 13
 - 15
84. The binary equivalent of the octal number 473 is
- 100111011
 - 100111111
 - 110111011
 - 110001011
85. Which one among the following commands is used to check the error status of hard disk drive?
- CHKDK
 - CHECKDISK
 - CHKDSK
 - DSKCHK
86. Which one of the following registers contains the address of the next location in the memory to be accessed?
- IR
 - MAR
 - MBR
 - DR
87. The effluents of which among the following industries are considered to be the main cause for lowering the pH value of river water?
- Alcohol distillery industries
 - Plastic cup manufacturing industries
 - Soap and detergent industries
 - Lead battery manufacturing industries
88. Which one of the following is **not** a soap?
- Sodium stearate
 - Sodium palmate
 - Sodium benzoate
 - Sodium oleate
89. The human eyeball is composed of three layers. The correct sequence of the layers from exterior to interior is
- Sclera → Choroid → Retina
 - Cornea → Choroid → Retina
 - Cornea → Sclera → Choroid
 - Sclera → Cornea → Choroid

90. Consider the following reaction :



Which one of the following statements about the reaction given above is correct?

- (a) The oxidation state of hydrogen increases while that of oxygen decreases.
- (b) The oxidation state of hydrogen decreases while that of oxygen increases.
- (c) There is no change in the oxidation state of hydrogen as well as that of oxygen.
- (d) During the reaction, hydrogen is reduced while oxygen is oxidized.

91. The pillar-like structures which hang vertically downward from the aerial branches found in banyan tree are known as

- (a) tap roots
- (b) climbing roots
- (c) fibrous roots
- (d) prop roots

92. Which of the following was/were recommended by the Thungon Committee in respect of 'local governments' in India?

- 1. Constitutional status
- 2. Three-year term

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

93. 'eSanjeevani', a scheme of the Government of India, serves which one among the following objectives?

- (a) Creates a database of people affected by COVID-19
- (b) Promotes the use of telemedicine
- (c) Establishes an electronic National Clinical Registry
- (d) Efficient promotion of health advisories

94. Which of the following statements about recommendations of the 15th Finance Commission is/are correct?

- 1. Basic (untied) grants can be used by rural local bodies for location-specific felt needs under the 29 subjects enshrined in the Eleventh Schedule of the Constitution of India except for salaries and other establishment costs.
- 2. Tied grants can be used for basic services of sanitation and maintenance of ODF status, management and treatment of household waste and human excreta.
- 3. It recommended 'Health Grants' to create diagnostic infrastructure in primary health care facilities.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

95. Which of the following statements about the functions of the State Finance Commission is/are correct?

1. It reviews the financial position of the local governments in the State.
2. It reviews the distribution of revenue between rural and urban local governments.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

96. CAMPA fund is regulated by which one of the following Ministries?

- (a) The Ministry of Home Affairs
- (b) The Ministry of Agriculture and Farmers Welfare
- (c) The Ministry of Environment, Forest and Climate Change
- (d) The Ministry of Defence

97. An employee working in an establishment draws a monthly wage of ₹9,000 as fixed under the Minimum Wages Act, 1948 and is eligible to get bonus under the Payment of Bonus Act, 1965 for the accounting year 2021-22. The bonus payable is at the rate of 10%. If the employee has worked continuously for whole of the said accounting year, then what is the amount of bonus that shall be paid to the employee?

- (a) ₹7,000
- (b) ₹8,400
- (c) ₹10,000
- (d) ₹10,800

98. Which one of the following statements relating to conclusion of conciliation proceedings under the Industrial Disputes Act, 1947 is **not** correct?

- (a) It is concluded on the date when a memorandum of settlement is signed by the parties.
- (b) It is concluded on the date when it ends in failure resulting in no memorandum of settlement signed between the parties.
- (c) It is concluded on the date when the report of the Conciliation Officer is received by the Appropriate Government when no settlement is arrived.
- (d) It is concluded on the date when the reference is made by the Appropriate Government to the Labour Court/Industrial Tribunal under Section 10 of the Act during pendency of the conciliation proceedings.

99. The provision for disability compensations for the person, who is declared unfit after medical examination and for whom no alternate employment is possible, finds place under which one of the following legislations?

- (a) The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
- (b) The Factories Act, 1948
- (c) The Mines Act, 1952
- (d) The Plantations Labour Act, 1951

100. Which one of the following Articles of the Constitution of India prohibits employment of children in factory or mine or any other hazardous employment?

- (a) Article 19
- (b) Article 21
- (c) Article 23
- (d) Article 24

101. Article 43 of the Constitution of India enjoins the State to endeavour through legislation or economic organization for payment of which of the following wages?

- (a) Living wage
- (b) Minimum wage
- (c) Fair wage
- (d) Need-based minimum wage

102. Container X contains a mixture of oil and water in the ratio 1:3, whereas container Y contains a mixture of oil and water in the ratio 2:3. If 2 litres of liquid from container X and 5 litres of liquid from container Y are mixed together in container Z that initially contains 1 litre of pure oil, then what is the percentage of oil in container Z?

- (a) 41.25
- (b) 42.75
- (c) 43.75
- (d) 44.25

103. A solid circular metallic disc of radius 12 inches and thickness 4 inches is melted and shaped into a solid disc of radius 16 inches. What is the thickness of the new disc in inches?

- (a) 2
- (b) 2.25
- (c) 2.50
- (d) 2.75

Directions : The next **three** items are based on the following table which shows the earnings and profits (in rupees thousand crore) of four companies during 2016–2020 :

		Company			
Year		X	Y	Z	W
2016	Earning	100	95	74	50
	Profit	20.5	8.5	7.5	4
2017	Earning	120	94	77	58
	Profit	22.4	9.5	8.8	5.5
2018	Earning	115	92	82	75
	Profit	23.1	7.5	10.5	10.1
2019	Earning	125	90	85	80
	Profit	20.7	5.5	12	12.5
2020	Earning	130	96	89	95
	Profit	25.8	9.5	14	20.5

104. How many of these companies' earnings increased by at least 20% in the year 2020 in comparison to the year 2016?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

105. In 2020, the relative profit jump of which company was maximum over the previous year?

- (a) X
- (b) Y
- (c) Z
- (d) W

106. In 2017, the absolute profit jump of which company was minimum over the previous year?

- (a) X
- (b) Y
- (c) Z
- (d) W

107. The value of long-term investment in shares is subject to wide fluctuations. A provision created against fluctuation in value of investments is based on the convention of

- (a) conservatism
- (b) full disclosure
- (c) materiality
- (d) consistency

108. Which one of the following aspects is **not** covered in audit?

- (a) Examination of the system of accounting and internal control
- (b) Preparation of books of accounts
- (c) Reporting to the appropriate person/body
- (d) Verification of the authenticity and validity of transactions

109. Which of the following sets the scope, timing and direction of the audit, and guides the development of the more detailed audit plan?

- (a) Audit program
- (b) Overall audit strategy
- (c) Completion memorandum
- (d) Audit plan

110. Goodwill Account is a/an

- (a) Personal Account
- (b) Real Account
- (c) Nominal Account
- (d) Expense Account

111. The principle of subrogation in insurance allows

- (a) investment of policy amount
- (b) refund for insured and insured's insurance company
- (c) auto-renewal of policy
- (d) indemnification of the insured

112. Which of the following expenditures are charged to the Consolidated Fund of India?

1. The debt charges for which the Government of India is liable
2. The emoluments and allowances of the President and other expenditure relating to his/her office
3. The salaries, allowances and pensions payable to or in respect of Judges of the Supreme Court
4. The salaries and allowances of the Chairman and the Deputy Chairman of the Rajya Sabha, and the Speaker and the Deputy Speaker of the Lok Sabha

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 1, 2, 3 and 4
- (c) 2, 3 and 4 only
- (d) 3 and 4 only

113. Consider the following statements :

1. Population change in an area is an important indicator of economic development of that region.
2. Population change in an area is not an indicator of social upliftment of that region.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

114. Which one among the following statements regarding 'human development' is **not** correct?

- (a) The basic concept of Income Approach to Human Development is that the level of income reflects the level of freedom an individual enjoys.
- (b) Basic Needs Approach to Human Development was initially proposed by the International Labour Organization (ILO).
- (c) Human Poverty Index measures the shortfall in human development.
- (d) Under the Welfare Approach to Human Development, the Government protects and promotes private entrepreneurs to maximize expenditure on welfare.

115. Which of the following statements about globalization is/are correct?

1. It has fuelled the spread of trans-border currencies, digital cash and global credit cards.
2. Securities markets have gained a global dimension with the development of electronic round-the-world trading.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

116. As per FAOSTAT (Food and Agriculture Organization Corporate Statistical Database), which of the following is/are correct about India's milk production?

1. India ranked second in the world in milk production in the year 2021–22.
2. India contributed 24% of global milk production in the year 2021–22.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

117. Which one of the following statements about the Group of Twenty (G20) is **not** correct?

- (a) It was founded in 1999.
- (b) The G20 summit is held annually under the leadership of a rotating Presidency.
- (c) The G20 members represent around 85% of the global GDP.
- (d) The G20 comprises twenty countries.

118. The Nobel Prize in Chemistry for the year 2022 was awarded for

- (a) CRISPR/Cas9 genetic scissors
- (b) click chemistry and bioorthogonal chemistry
- (c) lithium-ion batteries
- (d) palaeogenomics

119. Which of the following statements about a 'unicorn' is/are correct?

1. In the venture capital industry, the term 'unicorn' refers to any startup that reaches the valuation of \$10 billion.
2. Only a privately held startup can be a unicorn.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

120. Which of the following statements about Santosh Trophy Tournament, 2023 is/are correct?

1. The final match was played in Riyadh.
2. The final match was played between Karnataka and Meghalaya.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

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2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.
DO NOT write *anything else* on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third (0-33)** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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37. The fastest seismic wave to arrive at a station is :
- S-wave
 - P-wave
 - Love wave
 - Rayleigh wave

38. The ground motion recorded during an earthquake is called :
- Seismogram
 - Seismograph
 - Response spectra
 - Accelerograph

39. Match List I with List II and select the correct answer using the code given below the lists :

<i>List I</i> (Zone)	<i>List II</i> (% of the annual seismic energy released)
-------------------------	---

A. Circum-Pacific zone	1. 75 – 80%
B. Mediterranean-Trans-Asiatic zone	2. 3 – 7%
C. Oceanic ridge and rises zone	3. 15 – 20%
D. Intraplate seismic zone	4. ~1%

Code :

	A	B	C	D
(a)	1	2	3	4
(b)	4	3	2	1
(c)	4	2	3	1
(d)	1	3	2	4

40. The value of Poisson's ratio for a Poisson solid is :
- Zero
 - 0.025
 - 0.25
 - 0.50

41. The dilatation of a volume element can be represented by :
- Sum of the longitudinal strains
 - Sum of the shear strains
 - Sum of the normal stresses
 - Sum of the shear stresses

42. The long-period seismometer usually records the seismic signals with frequencies :
- 0.01 – 0.1 Hz
 - 0.1 – 1.0 Hz
 - 1 – 10 Hz
 - 10 – 25 Hz

43. Consider the following statements regarding proton precession magnetometer :
- It is essentially free from drift.
 - It requires accurate orientation.
 - It has essentially no mechanical parts.
 - It requires no levelling.

Which of the statements given above is/are correct ?

- 2 only
- 1, 3 and 4
- 2, 3 and 4
- 1, 2 and 3

44. A vector is used to represent the Earth's magnetic field at an observation site. How many magnetic elements with any combination are sufficient to fully describe this vector ?

- 2
- 5
- 1
- 3

45. The data, used for the publication of the first magnetic declination chart in 1702, was collected over :

- Atlantic Ocean
- Pacific Ocean
- Indian Ocean
- Arctic Ocean

56. Which one of the following statements regarding isostasy as suggested by C.E. Dutton is correct ?
- The topographic load is compensated by a less-dense subsurface.
 - The topographic load is compensated by a high-dense subsurface.
 - The topographic load is compensated by a similar-dense subsurface.
 - There is no need to compensate the topographic load.
57. The sky appears blue due to :
- Mie scattering
 - Rayleigh scattering
 - Raman scattering
 - Compton scattering
58. The clouds and fog appear whitish due to :
- Rayleigh scattering
 - Mie scattering
 - Non-selective scattering
 - Raman scattering
59. The airborne magnetometers can measure the :
- Intensity of the magnetic field only
 - Direction of the magnetic field only
 - Direction and intensity of magnetic field
 - Vertical magnetic field intensity only
60. Which one of the following geophysical data can be acquired using both aerial and space-borne platforms ?
- SONAR data
 - Magnetic data
 - Electrical data
 - Seismic data
61. Which one of the following is a major limitation of aerial photographic system ?
- Geometric fidelity
 - Stereo capability
 - Spectral sensitivity
 - Permanent recording
62. The reflection pattern of most natural bodies is :
- Specular
 - Lambertian
 - Semi-diffused
 - Semi-Lambertian
63. The special characteristic feature of GIS database for thematic information is that it is organized in the form of :
- Numerical values
 - Contour
 - Alpha-numeric values
 - Layers
64. Which one of the following data types is characteristic of GIS ?
- Spatial
 - Complex
 - Binary
 - Imaginary
65. The healthy deciduous forest in the standard False Colour Composite (FCC) image will appear as :
- Black
 - Blue
 - Red
 - Green
66. Which one of the following is **not** an intrinsic parameter of ground truth verification of remote sensing studies ?
- Albedo
 - Temperature
 - Spectral emissivity
 - Rock type

67. Which one of the following parts of the Electromagnetic Radiation (EMR) is most reflected by high chlorophyll in vegetation ?
- Near infrared
 - Thermal infrared
 - Green
 - Ultraviolet
68. Consider the following statements regarding Remote Sensing :
- It focuses on the measurement of EMR.
 - It provides information to characterize the conditions of the land surfaces only.
 - Thermal and microwave sensors used in it measure the emitted wavelengths longer than that of visible EMR.
- Which of the statements given above are correct ?
- 1 and 2 only
 - 2 and 3 only
 - 1 and 3 only
 - 1, 2 and 3
69. The Gamma-Gamma log is used to determine :
- Porosity of the formation
 - Resistivity of the formation
 - Diameter of the well
 - Dip of the well
70. Which one of the following statements regarding the Neutron log is correct ?
- It uses neutron source and detects gamma rays.
 - It uses gamma source and detects gamma rays.
 - It uses neutron source and detects neutron particles.
 - It uses gamma source and detects neutron particles.
71. Which one of the following logs is associated with liquid-junction potential ?
- Gamma log
 - Self-Potential log
 - Sonic log
 - Neutron log
72. The Draped Aeromagnetic Survey maintains the constant elevation above :
- Mean sea level
 - Land surface
 - Sea floor
 - Reference spheroid
73. Which one of the following logs uses Cobalt-60 (^{60}Co) as a source ?
- Gamma-Gamma log
 - Gamma log
 - Neutron log
 - Resistivity log
74. Which one of the following method uses Turair system ?
- Magnetic method
 - Gravity method
 - Electromagnetic method
 - Seismic method
75. The detector housed in a container for airborne magnetic survey is called :
- Fish
 - Bird
 - Sparrow
 - Shark

82. In a three-layer geoelectrical structure model, ρ_1 , ρ_2 and ρ_3 are the resistivities of layers 1, 2 and 3 from top to bottom of the surface, respectively. Which one of the following sounding curves corresponds to the condition where $\rho_1 > \rho_2 < \rho_3$?
- A-type
 - H-type
 - K-type
 - Q-type
83. The self-potential method acts as a primary method for :
- Hydrocarbon exploration
 - Archaeogeophysics
 - Regional geological studies
 - Hydrogeological studies
84. In case of a three-layered model, if the middle layer is conductive relative to those around it, then the current flow is focused through and virtually parallel to that layer. What will be the longitudinal conductance of such layer of 5 m thickness and 20 Ωm resistivity ?
- 4.0 siemens
 - 1.5 siemens
 - 0.5 siemens
 - 0.25 siemens
85. The preferred electrode configuration for induced polarization survey is :
- Schlumberger
 - Dipole-Dipole
 - Wenner
 - Half-Schlumberger
86. The variation of amplitude of an analog signal with time is :
- Continuous
 - Discrete
 - Both continuous and discrete
 - Constant
87. Which one of the following is **not** used in converting an analog signal into a digital signal ?
- Sampling in time
 - Quantizing
 - Smoothing
 - Coding
88. Which one of the following parameters of carrier wave is **not** varied in modulation of the signal ?
- Amplitude
 - Phase
 - Bandwidth
 - Frequency
89. Which one of the following semiconductor materials are mostly used in the construction of Light Emitting Diodes (LEDs) in visible regions ?
- Germanium
 - Silicon
 - Cadmium Selenide
 - Gallium Arsenide Phosphide
90. In a Cathode Ray Oscilloscope (CRO), the time base is used to :
- Delay the signal for some time in the vertical sections
 - Generate the sawtooth voltage required to reflect the beam in the horizontal section
 - Amplify signals in the vertical section
 - Convert the incoming signal into trigger pulses so that the incoming signal and the sweep frequency can be synchronized

91. Consider the following statements :

1. Regolith is a layer of fragmented loose rock particles over the bed rock.
2. Humus is an essential component of soil that occurs in A and O horizons.
3. A, B, E and O horizons in a soil profile constitute the solum.
4. Chemical weathering dominates in arctic and arid environments.

Which of the statements given above are correct ?

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 2, 3 and 4
- (d) 1, 3 and 4

92. Consider the following statements regarding earthquakes :

1. Richter magnitude scale of an earthquake is a measure of its size.
2. Epicenter is the point within the earth at which an earthquake begins.
3. Omori's law gives relationship between the number of aftershocks per unit time and the time since the main earthquake.
4. Modified Mercalli scale of earthquake is a measure of released energy.

Which of the statements given above are correct ?

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 and 3
- (d) 1 and 4

93. Which one of the following is **not** associated with physical weathering ?

- (a) Frost wedging
- (b) Salt crystal growth
- (c) Sheetting
- (d) Spheroidal weathering

94. Which one of the following seismic zones exhibits maximum number of earthquake occurrences ?

- (a) Mediterranean belt
- (b) Antarctic belt
- (c) Circum-Pacific belt
- (d) Mid-Atlantic belt

95. Overhanging cockscomb ridges having long passageways due to scouring away of softer strata by wind are called :

- (a) Yardangs
- (b) Hamadas
- (c) Wind gaps
- (d) Dreikanterers

96. In high altitude regions when soil becomes thoroughly water-logged after melting of snow, it may result in actual downward flow of soil termed as :

- (a) Liquefaction
- (b) Rock-glacier
- (c) Avalanche
- (d) Solifluction

97. When a high gradient stream flowing through a narrow valley in mountainous terrain comes out suddenly onto a broad flat plain, it forms :

- (a) Delta
- (b) Pediment
- (c) Alluvial fan
- (d) Plateau

98. Sinkholes are associated with :

- (a) Karst topography
- (b) Fluvial topography
- (c) Aeolin topography
- (d) Glacial topography

99. Which one of the following is **not** a type of dripstone ?

- (a) Stalagmite
- (b) Soda straw
- (c) Tower karst
- (d) Stalactite

- 106.** Magnetic field in Earth is mainly created by :
- Dynamo action within the outer core
 - Telluric currents in the Earth
 - Solar magnetic activity
 - Ferro-magnetic minerals of the lithosphere

- 107.** Consider the following processes :
- Microbial alteration, hydrolysis
 - Thermocatalytic cracking
 - Thermal cracking
 - Condensation, reduction, polymerization
- Which one of the following represents the correct sequence of formation of oil and gas from organic matter ?
- 1 → 2 → 3 → 4
 - 1 → 4 → 2 → 3
 - 1 → 3 → 2 → 4
 - 2 → 3 → 1 → 4

- 108.** Deposits of columbite-tantalite are commonly formed by which one of the following processes ?
- Immiscible liquid segregation
 - Immiscible liquid injection
 - Magmatic assimilation
 - Residual liquid pegmatitic injection

- 109.** Match List I with List II and select the correct answer using the code given below the lists :

<i>List I</i> (Tectonic Setting)	<i>List II</i> (Mineral / Energy Resource)
A. Ophiolite	1. Ni-Cu sulfides
B. Archean greenstone	2. Bauxite
C. Continental rift	3. Podiform chromite
D. Cratons	4. Geothermal energy

Code :

	A	B	C	D
(a)	2	4	1	3
(b)	2	1	4	3
(c)	3	1	4	2
(d)	3	4	1	2

- 110.** Consider the following Uranium deposit types :

- Evaporation deposit in paleochannels
- Infiltration deposit in sandstone
- Unconformity deposit
- Magmatic hydrothermal deposit

The correct order of deposits from highest to lowest economic importance is :

- 1, 2, 3, 4
- 2, 1, 3, 4
- 3, 4, 2, 1
- 3, 2, 1, 4

- 111.** Match List I with List II and select the correct answer using the code given below the lists:

<i>List I</i> (Term)	<i>List II</i> (Description)
A. Elastic strain	1. Deals with the flow of rocks
B. Rheology	2. Non-permanent deformation
C. Rock Mechanics	3. Higher the stress, faster the deformation
D. Viscous deformation	4. Deals with the way rocks respond to stress by brittle fracturing

Code :

	A	B	C	D
(a)	3	1	4	2
(b)	3	4	1	2
(c)	2	1	4	3
(d)	2	4	1	3

112. Which one among the following pairs is **not** correctly matched ?

- (a) Rodding : Lination formed by aggregation of a particular mineral
- (b) Intersection : Combination of lineation of foliations such as bedding and cleavage
- (c) Boudinage : Competent rock layers that have been stretched into segments
- (d) Mullion : Hard objects or asperities carve out linear tracks or grooves

113. In a folded layer, strain decreases towards the :

- (a) Neutral surface
- (b) Outer arc
- (c) Inner arc
- (d) Axial surface

114. Consider the following statements regarding folds :

1. The term anticline strictly applies to a fold with older rocks in its core.
2. Based on dip of axial plane, folds may be divided into inclined and recumbent folds.
3. Ramsay's fold classification based on dip isogons divides the folds into four major classes.

Which of the statements given above is/are correct ?

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 only
- (d) 2 only

115. The angle between the normals to the folded surfaces constructed at the two inflection points of a fold is called :

- (a) Interlimb angle
- (b) Folding angle
- (c) Layer inclination
- (d) Angle of dip isogon

116. The en echelon S or Z-shaped fractures that form in brittle-ductile shear zones are called :

- (a) Pinnate fractures
- (b) Gash fractures
- (c) Feather fractures
- (d) Shear fractures

117. A bed is always bounded on its two sides by distinct surfaces known as :

- (a) Bedding planes
- (b) Bounding planes
- (c) Joint planes
- (d) Fissility planes

118. The half spreading rates of movement of tectonic plates are approximately :

- (a) 2 to 15 mm/year
- (b) 2 to 15 cm/year
- (c) 2 to 15 m/year
- (d) 2 to 15 km/year

119. A supercontinent named 'Pangaea' formed during :

- (a) Archean
- (b) Proterozoic
- (c) Palaeozoic
- (d) Mesozoic

120. The term 'Mariana-type' arc is used for :

- (a) Contractional back-arc
- (b) Extensional back-arc
- (c) Remnant arc
- (d) Collisional arc

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी. बी. सी. : BNYR-U-GAT

क्रम संख्या

1881009



परीक्षण पुस्तिका अनुक्रम

परीक्षण पुस्तिका

EO/AO - सामान्य योग्यता परीक्षण



समय : दो घण्टे

पूर्णांक : 300

अनुदेश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लीजिए।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को, ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दो भागों में दिए गए हैं : भाग - A और भाग - B। भाग - B में प्रत्येक प्रश्नांश हिन्दी और अंग्रेजी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर **ही** अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखिए।
6. **सभी** प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अंत में संलग्न हैं।
10. गलत उत्तरों के लिए दंड ;
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए गलत उत्तरों के लिए दंड दिया जाएगा।
 - (i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक गलत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दंड के रूप में काटा जाएगा।
 - (ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे गलत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
 - (iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दंड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

PART - B

21. Which one of the following was *not* provided in the Regulating Act of 1773 ?

- (a) It made the Presidency of Bengal supreme over those of Bombay and Madras in matters relating to war and peace.
- (b) The tenure of the Governor-General and his Councillors was fixed as five years.
- (c) The Supreme Court of Justice was established at Calcutta.
- (d) The Governor-General-in-Council was authorized to appoint successors to Bombay and Madras Presidencies.

22. Which one of the following statements about the Government of India Act of 1935 is *not* correct ?

- (a) It was an outcome of the Round Table Conferences.
- (b) It provided for the establishment of an All India Federation.
- (c) It retained the authority of the Secretary of State over the Government of India.
- (d) It introduced the provision of Provincial Autonomy.

23. Match List I with List II and select the correct answer using the code given below the Lists :

<i>List I</i> (Congress Session)	<i>List II</i> (President)
-------------------------------------	-------------------------------

- | | |
|----------------------------|----------------------------------|
| A. Lahore Session, 1909 | 1. Madan Mohan Malaviya |
| B. Calcutta Session, 1911 | 2. Raghunath Narasinha Mudholkar |
| C. Bankipore Session, 1912 | 3. Bishan Narayan Dar |
| D. Madras Session, 1914 | 4. Bhupendra Nath Bose |

Code :

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 1 | 3 | 2 | 4 |
| (b) | 1 | 2 | 3 | 4 |
| (c) | 4 | 2 | 3 | 1 |
| (d) | 4 | 3 | 2 | 1 |

24. Who among the following started the Bhonsala Military School at Nashik ?

- (a) V.D. Savarkar
- (b) M.R. Jayakar
- (c) N.C. Kelkar
- (d) B.S. Moonje

25. Arrange the following events associated with Pandit Madan Mohan Malaviya in chronological order, starting with the earliest :

1. Founding of the Banaras Hindu University
2. Formation of the Congress Nationalist Party
3. Founding of the English newspaper 'The Leader'
4. Founding of the Hindu Boarding House at Allahabad

Select the correct answer using the code given below :

- (a) 3-4-1-2
- (b) 4-3-1-2
- (c) 4-3-2-1
- (d) 3-4-2-1

26. An employee shall be covered under the provisions of the Payment of Wages Act, 1936, should the employee be drawing a maximum monthly wage of :

- (a) Rupees fifteen thousand
- (b) Rupees eighteen thousand
- (c) Rupees twenty-one thousand
- (d) Rupees twenty-four thousand

27. A minimum rate of remuneration which shall be applied to an employee working on piece work for the purpose of securing to such employees a minimum rate of wages on a time work basis under the Minimum Wages Act, 1948 is known as :

- (a) A minimum piece rate
- (b) A guaranteed time rate
- (c) A minimum time rate
- (d) A guaranteed piece rate

28. Match List I with List II and select the correct answer using the code given below the Lists :

<i>List I</i> (Provision)	<i>List II</i> (Legislation)
A. Recovery Officer	1. The Industrial Employment (Standing Orders) Act, 1946
B. Compulsory Insurance	2. The Minimum Wages Act, 1948
C. Scheduled Employment	3. The Payment of Gratuity Act, 1972
D. Subsistence Allowance	4. The Employees' Provident Fund and Miscellaneous Provisions Act, 1952

Code :

	A	B	C	D
(a)	4	3	2	1
(b)	4	2	3	1
(c)	1	2	3	4
(d)	1	3	2	4

29. An adult worker who has joined on 1st January, 2022 in a factory and worked for 220 days during the year has been laid off for 25 days as per Standing Orders during the year. How many days of leave with wages shall he be entitled to during the calendar year 2023 ?

- (a) Nil
- (b) 10
- (c) 12
- (d) 11

30. As per the provisions of the Industrial Employment (Standing Orders) Act, 1946, standing orders shall come into operation after the expiry of how many days from the date on which copies of the order of the Appellate Authority are sent to the employer and to the trade unions ?

- (a) Seven days
- (b) Ten days
- (c) Fifteen days
- (d) Thirty days

31. How many members are to be nominated by the Central Government to the National Social Security Board as per the provisions of the Unorganised Workers' Social Security Act, 2008 ?

- (a) Eighteen
- (b) Twenty
- (c) Twenty-six
- (d) Thirty-four

32. Which one of the following schemes is **not** a Social Security Scheme under the Unorganised Workers' Social Security Act, 2008 ?

- (a) National Family Benefit Scheme
- (b) Janshree Bima Yojana
- (c) Employees' Pension Scheme
- (d) Rashtriya Swasthya Bima Yojana

33. Which one of the following authorities constituted by the Central Government shall be the Appellate Authority under the Employees' Provident Fund and Miscellaneous Provisions Act, 1952 ?

- (a) Employees Provident Funds Appellate Tribunal
- (b) National Tribunal
- (c) Labour Appellate Tribunal
- (d) Industrial Tribunal

34. As per the provisions of the Maternity Benefit Act, 1961, the maximum period for which a female employee shall be entitled to leave with wages as maternity benefit for giving birth to the third child is :

- (a) Eight weeks
- (b) Twelve weeks
- (c) Sixteen weeks
- (d) Twenty-six weeks

35. Which one of the following statements under the Employees' Provident Fund and Miscellaneous Provisions Act, 1952, is **not** correct ?

- (a) It makes provision for pension scheme including family pension.
- (b) It makes provision for Employees' Deposit Linked Insurance Scheme.
- (c) The provisions of the Act shall not be applicable to Cooperative Societies employing fifty or more persons working without the aid of power.
- (d) The contribution by the employer to the Fund shall be on the basis of the basic wage, dearness allowance and retaining allowance (if any) of the employee.

36. In a desert, X and Y are two spots that are separated by 100 km. At point X, are placed two pillars, one black and one white. Along the line joining X and Y, a white pillar is placed for every 180 m and a black pillar is placed for every 350 m. How many times can one find black and white pillars together while traveling from X to Y ?

- (a) 14
- (b) 15
- (c) 16
- (d) 17

37. P, Q, R, S, T and U are six friends. Which of the following is/are sufficient to compare heights of S and T ?

- 1. R is shorter than P but taller than other friends.
- 2. U is taller than Q but shorter than S although Q is not the shortest among the friends.

Select the correct answer using the code given below :

- (a) 1 alone is sufficient
- (b) 2 alone is sufficient
- (c) Both 1 and 2 are not sufficient
- (d) 1 and 2 together are sufficient

38. Eight chairs are placed at a uniform distance from each other around a round table. C and D are equal distance away from both A and B; E sits between A and C; G and F sit opposite each other. Where does H sit ?

- (a) Adjacent to D
- (b) Adjacent to A
- (c) Adjacent to F
- (d) Adjacent to G

39. A, B and C can individually finish a job in 10, 15 and 6 days, respectively. If all of them work together, in how many days will they finish the job ?

- (a) 2 days
- (b) 3 days
- (c) 4 days
- (d) 5 days

40. A dice is thrown two times. The number of ways that the number appearing on the first throw is **not** less than that on the second throw is :

- (a) 15
- (b) 20
- (c) 21
- (d) 36

51. Consider the following statements about DNA :

1. DNA refers to Deoxyribonucleic Acid.
2. It is located in the ribosomes.
3. It is composed of Ribonucleic Acid.
4. It can make a copy of itself.

Which of the statements given above is/are correct ?

- (a) 1 and 4
- (b) 1 and 3
- (c) 4 only
- (d) 2 and 3

52. Velamen, a spongy tissue, is formed in :

- (a) Tap root
- (b) Epiphytic root
- (c) Fibrous root
- (d) Respiratory root

53. Which one of the following statements is **not** correct ?

- (a) Hydrogen ions cannot exist alone.
- (b) All compounds containing hydrogen are acidic.
- (c) Separation of H^+ ions from HCl molecules cannot occur in the absence of water.
- (d) Water soluble bases are known as alkalis.

54. Which one of the following elements has the highest boiling point ?

- (a) Lithium
- (b) Sodium
- (c) Potassium
- (d) Rubidium

55. An ice cube with 10 cm side is divided into eight smaller cubes, each with same side. Which one of the following statements is correct in this context ?

- (a) Total volume will increase and total surface area will decrease.
- (b) Total volume will decrease and total surface area will increase.
- (c) Total volume will remain the same and total surface area will increase.
- (d) Total volume will increase and total surface area will remain the same.

56. Which of the following statements regarding the attendance of retired judges at sittings of the Supreme Court of India is/are correct ?

1. Article 128 permits the attendance of retired judges at the sittings of the Supreme Court.
2. The Chief Justice of India may at any time request anyone who has held office as a Judge of the Supreme Court or of a High Court to sit and act as a Judge of the Supreme Court.
3. The Chief Justice of India may at any time, with the previous consent of the President of India, request any person who has held the office of Chief Justice of a High Court to sit and act as a Judge of the Supreme Court.
4. The Chief Justice of India may at any time, with the previous consent of the President of India, request any person who has held the office of a Judge of the Supreme Court to sit and act as a Judge of the Supreme Court.

Select the correct answer using the code given below :

- (a) 1 and 4
- (b) 1 and 3
- (c) 2 and 4
- (d) 4 only

57. The board of a cooperative society can be superseded or kept under suspension if :

1. There is negligence in the performance of duties.
2. There is any act prejudicial to the interest of the co-operative society or its members.
3. The body has failed to conduct elections in accordance with the provisions of the State Act.
4. There is no Government shareholdings or loan or financial assistance or any guarantee by the Government.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 3 and 4 only
- (d) 1, 2 and 3

58. Which of the following statements regarding the Member of Parliament Local Area Development Scheme are correct ?

1. The nodal ministry for the scheme is the Ministry of Statistics and Programme Implementation.
2. Funds released under the scheme are non-lapsable.
3. The role of the Member of Parliament is limited to recommending works.
4. The scheme is confined to the State from which the Member of Parliament is elected (Lok Sabha). However, a Member of Parliament from Rajya Sabha can recommend works anywhere in the country.

Select the correct answer using the code given below :

- (a) 1 and 4 only
- (b) 1, 2 and 3 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

59. The Global Multidimensional Poverty Index developed by the United Nations Development Programme is a measurement of :

1. Nutrition
2. Cooking fuel
3. Assets
4. School attendance

Select the correct answer using the code given below :

- (a) 1, 2, 3 and 4
- (b) 1, 2 and 3 only
- (c) 2, 3 and 4 only
- (d) 1 and 4 only

60. Which one of the following was *not* recommended by the Dinesh Goswami Committee (1990) ?

- (a) The appointment of the Chief Election Commissioner should be made by the President of India in consultation with the Chief Justice of India and the Leader of the Opposition.
- (b) The members of the Election Commission should be appointed by the President of India on the advice of a Committee, consisting of the Prime Minister and the Leader of the Opposition.
- (c) The consultation process should have a statutory backing.
- (d) The appointment of the other Election Commissioners should be made in consultation with the Chief Election Commissioner, the Chief Justice of India and the Leader of the Opposition.

61. Who among the following was a companion of freedom fighter Rani Chennamma of Kittur and continued the fight against the British after the Rani's capture by the British in 1824 ?
- Rayanna
 - Tipu Garo
 - Jagbandhu
 - Dukaribala Devi
62. The First Indian Factories Act, passed in 1881, dealt primarily with :
- Women labour
 - Living conditions of factory workers
 - Child labour
 - Textile workers
63. Where was Azad Hind Fauj (INA) formed ?
- Singapore
 - Tokyo
 - Berlin
 - Rangoon
64. In 1927, Lord Birkenhead, Secretary of State for India, appointed a Committee of three members to enquire into the relationship between the Indian States and the British Government and to make suggestions for more satisfactory adjustment of the existing economic relations between the Indian States and British India. Who among the following was **not** a member of the Committee ?
- Harcourt Butler
 - A.J. Wilson
 - W.S. Holdsworth
 - S.C. Peel
65. Which of the following statements are correct ?
- Under the Cornwallis System, the districts were divided into thanas or police jurisdictions of 20 – 30 miles square.
 - Each of them was placed under an officer of government, under the denomination of *daroga*.
 - The *daroga* system was introduced in Madras in 1812.
 - The *daroga* was nominated by the district magistrate.
- Select the correct answer using the code given below :
- 1 and 2 only
 - 2, 3 and 4
 - 1, 3 and 4
 - 1, 2 and 4
66. Model Standing Orders formed under the Industrial Employment (Standing Orders) Act, 1946 shall **not** apply to an establishment in respect of which the Appropriate Government is that of the State of :
- Madhya Pradesh
 - Gujarat
 - Kerala
 - West Bengal
67. An 'out-worker' is expressly excluded from the definition of 'workman' under which one of the following legislations ?
- The Factories Act, 1948
 - The Plantations Labour Act, 1951
 - The Contract Labour (Regulation and Abolition) Act, 1970
 - The Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979

81. Which one of the following is **not** a security protocol ?
- TLS
 - SSL
 - IPsec
 - MIME
82. LaTeX document does **not** contain :
- `\documentclass{article}`
 - `\begin{document}`
 - `\end{document}`
 - `\documentstyle{article}`
83. The decimal equivalent of $(-1101)_2$ is :
- 0.8122
 - 0.8123
 - 0.8124
 - 0.8125
84. In a worksheet, which one of the following is **not** a cell referencing style ?
- Relative referencing
 - Real-time referencing
 - Absolute referencing
 - Mixed referencing
85. Which one among the following is used to combine several object modules and libraries to a single executable program ?
- Interpreter
 - Compiler
 - Linker
 - Loader
86. An incandescent bulb rated as 100 W at 110 V is connected to a 220 V power supply. The power that dissipates in the bulb would be :
- 50 W
 - 100 W
 - 200 W
 - 400 W
87. If the length of a current carrying wire is halved, for a given potential difference, the current in the wire would :
- be doubled
 - be halved
 - remain unchanged
 - become zero
88. Crystals of copper sulphate pentahydrate, on heating, form :
- blue colour salt
 - white colour salt
 - green colour salt
 - brown colour salt
89. Tartaric acid is found in :
- Tamarind
 - Tomato
 - Orange
 - Vinegar
90. Which one of the following is an example of chemical change ?
- Melting of wax
 - Heating of iron
 - Dissolution of sugar in water
 - Burning of magnesium in air
91. Which one of the following is **not** a constitutional body in India ?
- National Human Rights Commission
 - National Commission for Scheduled Tribes
 - National Commission for Backward Classes
 - National Commission for Scheduled Castes

92. Which of the following is/are elements of India's 'Panchamrit' view on climate change ?

1. India will reach its non-fossil energy capacity of 500 GW by 2030.
2. India will meet 50% of its energy requirements from renewable energy by 2030.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

93. What are the prerequisites for declaring any area as a 'Scheduled Area' under the Fifth Schedule of the Constitution of India ?

1. Preponderance of Tribal Population
2. Compactness and reasonable size of the area
3. Economic backwardness of the area
4. The notification must be issued by the Governor of the concerned State

Select the correct answer using the code given below :

- (a) 2 and 4 only
- (b) 1, 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

94. The Railway Budget was separated from General Budget owing to :

- (a) Distributive Convention of 1925
- (b) Separation Convention of 1924
- (c) Bifurcation of Estimates of 1924
- (d) Equalising Convention of 1925

95. Which of the following statements regarding the non-electric cooling cabinet, for which the Bureau of Indian Standards (BIS) has recently developed an Indian Standard (IS 17693 : 2022), is/are correct ?

1. It is a natural refrigerator made primarily to store vegetables, fruits, milk and also for cooling water.
2. This standard helps BIS in fulfilling 6 out of 17 United Nations Sustainable Development Goals.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

96. Which of the following facilities are to be provided by the contractor to Inter-State migrant workers in connection with the work of an establishment to which the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979 is applicable ?

1. Equal pay for equal work irrespective of sex
2. Provision for suitable residential accommodation
3. Provision for protective clothing
4. Provision for old age benefit scheme
5. Prescribed medical facilities

Select the correct answer using the code given below :

- (a) 2, 3 and 5 only
- (b) 2, 4 and 5 only
- (c) 1, 2, 3 and 5
- (d) 1, 3 and 4 only

97. A dispute relating to the age of an adolescent employed by an employer which arises due to the absence of any authentic document can be referred to which one of the following authorities for a decision under the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986 ?

- (a) The Prescribed Medical Authority
- (b) The Labour Court
- (c) The Inspector appointed under the Act
- (d) The Appropriate Government

104. A school has 100 students and every student plays either cricket or football or both. The number of students who play cricket is twice the number of students who play football. Also, the number of students who play only cricket is three times the number of students who play only football. The number of students who play both cricket and football is, therefore :

- (a) 30
- (b) 28
- (c) 25
- (d) 20

105. A man walks in a certain direction for 5 km and then walks in the south direction for 4 km. If he ends up in the east direction with respect to the starting position, how far is he from the starting position ?

- (a) 2 km
- (b) 3 km
- (c) 4 km
- (d) 5 km

106. The beneficiaries under the Integrated Child Development Services (ICDS) Scheme are children in the age group of :

- (a) 0 – 6 years
- (b) 0 – 3 years
- (c) 3 – 6 years
- (d) 6 – 15 years

107. Which of the following statements about 'Truck farming' is/are correct ?

1. Growing vegetables around urban centres to meet the daily demand of people is known as Truck Farming.
2. It is governed by the distance a truck can cover overnight between the farm and the market.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

108. Which of the following statements with reference to the service sector is/are correct ?

1. Retail trade falls under tertiary activity.
2. Research and Development based activity comes under quaternary activity.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

109. Which of the following statements about the National Skill Development Corporation is/are **not** correct ?

1. It is a not-for-profit Public Limited Company set up by the Ministry of Skill Development and Entrepreneurship.
2. It promotes skill development by catalysing the creation of only large, quality and non-profit vocational institutions.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

110. Which of the following statements with reference to the *Atal Vayo Abhyuday Yojana* (AVYAY) is/are correct ?

1. Fulfil basic needs of destitute elderly citizens
2. Build and strengthen intergenerational relationships through Regional Resource and Training Centres
3. Provide guaranteed monthly pension to elderly citizens
4. Establish Atal Incubation centres for elderly citizens

Select the correct answer using the code given below :

- (a) 1, 2, and 4
- (b) 3 and 4 only
- (c) 1 and 2 only
- (d) 1 only

111. Consider the following statements :

Statement I :

In India, Central Government determines the inflation target, in consultation with Reserve Bank of India, in terms of Consumer Price Index once in five years.

Statement II :

At present, the Monetary Policy framework in India is operated by Central Government.

Which of the following is correct in respect of the above statements ?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is **not** the correct explanation for statement I
- (c) Statement I is correct but statement II is incorrect
- (d) Statement I is incorrect but statement II is correct

112. Consider the following statements :

Statement I :

In India, the RTGS and NEFT payment systems are owned and operated by National Payment Corporation of India.

Statement II :

National Payment Corporation of India is an entity promoted by banks.

Which of the following is correct in respect of the above statements ?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is **not** the correct explanation for statement I
- (c) Statement I is correct but statement II is incorrect
- (d) Statement I is incorrect but statement II is correct

113. Consider the following statements :

Statement I :

A very strong US Dollar squeezes global credit.

Statement II :

Many countries and companies outside America borrow in Dollars.

Which of the following is correct in respect of the above statements ?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is **not** the correct explanation for statement I
- (c) Statement I is correct but statement II is incorrect
- (d) Statement I is incorrect but statement II is correct

114. Consider the following statements :

Statement I :

The Government of India mandates the packaging of 100% sugar and food grains in diversified jute bags.

Statement II :

The Government of India enacted the Jute Packaging Materials (Compulsory Use in Packing Commodities) Act, 1987.

Which of the following is correct in respect of the above statements ?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is **not** the correct explanation for statement I
- (c) Statement I is correct but statement II is incorrect
- (d) Statement I is incorrect but statement II is correct

115. Recently which one among the following committed up to \$ 25 billion for the next five years to fund India's infrastructure creation under the Prime Minister Gati Shakti initiative as well as social development and climate action, thus aiding India's aspirations for green growth ?
- Asian Development Bank
 - International Finance Corporation
 - New Development Bank
 - World Bank
116. 'Large Language Models', sometimes described in news, can be used in which of the following ?
- Creation of reimagined search engines
 - Health care
 - Software development
 - Translating a language
- Select the correct answer using the code given below :
- 1 and 3 only
 - 1, 2 and 4 only
 - 2, 3 and 4 only
 - 1, 2, 3 and 4
117. With reference to the three types of carbon emissions from companies, consider the following pairs :
- | <i>Emission</i> | <i>Example</i> |
|----------------------|--|
| 1. Scope 1 emissions | : Emissions as a result of employee commuting, business travel and waste produced |
| 2. Scope 2 emissions | : Emissions as a result of purchase of electricity, steam, heating and cooling for own use |
| 3. Scope 3 emissions | : Emissions from fuels consumed by company vehicles, owned and leased |
- Which of the above pairs is/are correctly matched ?
- 1 and 2
 - 2 only
 - 1 and 3
 - 3 only
118. 'Quantified Domestic Minimum Top-up Tax' is generally talked about in the context of :
- Global Anti-Base Erosion Rules
 - Prevention of Money Laundering
 - Regulation of Crypto-currency
 - Virtual Digital Asset Transactions
119. Which one of the following statements best describes the term 'Prowess_{dx}' sometimes seen in news ?
- A special-purpose supercomputer with a hardware architecture dedicated to a single problem
 - A database of the financial performance of companies that is specially designed for academia
 - A computing machine that uses the properties of quantum physics to store data and perform computation
 - A database in which collection and storing of data is done on user's system and this is basically designed for a single user
120. 'NSE Prime', sometimes mentioned in news, denotes :
- A high standard corporate governance initiative
 - Long-duration Sovereign Green Bonds
 - Concessions and tax-holidays for hi-tech startup companies
 - Special privileges for certain categories of Non-Banking Financial Institutions

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T.B.C. : CTFR-A-CFL



Test Booklet Series

Serial

1000121

TEST BOOKLET


CORPORATE FRAUDS : LAWS AND REGULATIONS



Time Allowed : Two Hours

Maximum Marks : 300

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. 
DO NOT write *anything else* on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a **wrong answer** has been given by the candidate, **one-third (0.33)** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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53. The Deputy Director appointed under the Prevention of Money Laundering Act, 2002, (PMLA), investigating a matter under the Fugitive Economic Offenders Act, 2018 (FEOA), has strong reasons to believe that in the interest of justice, it is absolutely essential to immediately attach certain property involved under the investigation. She did not file an application under Section 4 of the FEOA before the Special Court for declaring the individual as a fugitive economic offender. Under the provisions of the FEOA, which one among the following is true with regard to the attachment of the property ?

- (a) She can attach if she gets a special order in this respect from the Director appointed under Section 49(1) of the PMLA, 2002
- (b) She can attach any property which is being or is likely to be dealt with in a manner which may result in the property being unavailable for confiscation
- (c) She cannot attach before filing of an application under Section 4 of the FEOA requiring the individual to be declared as a fugitive economic offender
- (d) She cannot attach if a person interested in the enjoyment of the immovable property is in possession of the said property

54. Which one among the following statements is **not** correct with regard to the duties, powers and functions of Insurance Regulatory and Development Authority (IRDA) ?

- (a) Protection of the interests of the policy holders in matters concerning assigning of policy, nomination by policy holders, insurable interest and settlement of insurance claim
- (b) Promotion and regulating insurance and reinsurance business
- (c) Defining the rules, regulations and form guidelines and code of conduct that should be followed by the corporates as well as financial intermediaries
- (d) Regulating investment of funds by insurance companies

55. Consider the following statements in respect to the Insurance Regulatory and Development Authority (IRDA) constituted under the Insurance Regulatory and Development Authority Act, 1999 :

1. The Central Government can supersede the IRDA when it has persistently defaulted in complying with directions of the Central Government
2. The Central Government may give directions to the IRDA on issues relating to technical and administrative matters
3. The IRDA is required to furnish to the Central Government returns, statements and other particulars relating to proposed or existing programmes

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 1, 2 and 3
- (c) 2 and 3 only
- (d) 1 and 3 only

56. Which one among the following factors will **not** be considered while determining whether an agreement has an appreciable adverse effect on competition under Section 3 of the Competition Act, 2002 ?
- Foreclosure of competition by hindering entry into the market
 - Accrual of benefits to the consumers
 - Economic power of the enterprise including commercial advantages over competitors
 - Creation of barrier to new entrants in the market
57. Under Section 18 of the Competition Act, 2002, which one among the following is **not** the duty of the Competition Commission of India ?
- To eliminate practices having adverse effect on competition
 - To prevent any irregularity in the stock market
 - To protect the interest of the consumers
 - To ensure freedom of trade carried on by other participants in markets in India
58. Which one among the following is **not** an 'enterprise' under the Competition Act, 2002 ?
- Bar Council of India while setting standards of legal education
 - Indian Railways while contracting for carriage of goods
 - State Government while inviting bids for appointment of distributors
 - Coal India Ltd. while entering into fuel supply agreements
59. The Directorate of Enforcement is established under which one among the following legislations ?
- Foreign Exchange Management Act, 1999
 - Prevention of Money Laundering Act, 2002
 - Fugitive Economic Offenders Act, 2018
 - Prevention of Corruption Act, 1988
60. An insolvency proceeding was commenced and a moratorium order was passed in regard to 3 land properties, X, Y and Z under Section 14 of the Insolvency and Bankruptcy Code. The Directorate of Enforcement (ED) wants to attach properties X and Z under the Prevention of Money Laundering Act, 2002. Which one among the following is true ?
- The ED cannot attach the properties due to the moratorium order
 - The ED cannot be restricted from attaching the properties
 - The ED can attach the property only after seeking prior approval from the Resolution Professional (RP)
 - The ED can be permitted to attach properties only after a resolution is passed by a majority of the Committee of Creditors (CoC)

- 61.** A, being the executor to the will of a deceased person, dishonestly disobeys the law which directs him to divide the effects according to the will, and appropriates them to his own use. A is punishable for which one among the following offences under the Indian Penal Code, 1860 ?
- Dishonest misappropriation of property under Section 404
 - Criminal breach of trust under Section 406
 - Criminal breach of trust by public servant under Section 409
 - Criminal breach of trust by servant under Section 408
- 62.** A pledges articles of diamond which he knows are not diamonds, to Z and thereby dishonestly induces Z to lend money. A is guilty of which one among the following offences ?
- Cheating
 - Cheating by impersonating
 - Forgery
 - Mischief
- 63.** With regard to a public servant, which one among the following statements is correct ?
- A public servant cannot engage in a trade whether legally bound or not to engage in any trade
 - A public servant cannot engage in any trade if it creates problems in the performance of his duties
 - A public servant, legally bound not to engage in any trade carries on any trade, he/she shall be punishable with simple imprisonment of up to one year
 - A public servant, legally bound not to engage in any trade carries on any trade, he/she shall be punishable with imprisonment of up to three years
- 64.** In which of the following cases, is A guilty of the offence of bribery, under the Indian Penal Code, 1860 ?
- A accepted a treat for promising to vote in favour of X at an election without intending to vote for him
 - A accepted a treat for voting in favour of X at an election without actually voting for him
- Select the correct answer using the code given below :
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
- 65.** Z dies in possession of money which is then misappropriated by his servant before the money reaches its lawful owner. What offence, if any, has been committed by the servant under the Indian Penal Code, 1860 ?
- Criminal breach of trust punishable under Section 405
 - Dishonest misappropriation of property punishable under Section 404
 - Dishonest misappropriation of property punishable under Section 403
 - Criminal breach of trust punishable under Section 408
- 66.** The maximum punishment of seven years has been prescribed for which one among the following offences ?
- Cheating by personation
 - Cheating and dishonestly inducing delivery of property
 - Fraudulently preventing debt being available for creditors
 - Fraudulent removal of property to prevent distribution among creditors

74. Information Technology Act, 2000, was enacted on the basis of model set of laws provided by :

- (a) World Intellectual Property Organisation (WIPO)
- (b) World Trade Organisation's Trade-Related aspects of Intellectual Property Rights (WTO TRIPS) agreement
- (c) United Nations Commission on International Trade Law (UNCITRAL)
- (d) WTO TRIPS and UNCITRAL

75. Digital signatures under the Information Technology Act, 2000 means authentication of any electronic record by a subscriber by means of an electronic method or procedure entailing :

- (a) Asymmetric crypto system and hash function.
- (b) Symmetric and asymmetric crypto system.
- (c) Symmetric crypto system and hash function.
- (d) Only asymmetric crypto system.

76. In the world of cyber-crime, 'phishing' is a situation which is on the rise. Which of the following provisions under the Information Technology Act, 2000, will **not** be attracted while dealing with such offences ?

- (a) Penalty and compensation for damage to computer, computer system under Section 43
- (b) Punishment for sending offensive messages through communication under Section 66A
- (c) Punishment for reading and watching obscene material in electronic form under Section 67
- (d) Punishment for identity theft under Section 66C

77. M used obscene and foul language and distributed the telephone number of G on social networking sites inviting people to chat with her on phone. As a result, G started getting large number of anonymous and obscene calls. This can be said to be :

- (a) Cyber-stalking
- (b) Cyber-terrorism
- (c) Cyber-squatting
- (d) Cyber-spoofing

78. R and S have been living together for 8 months in Delhi. Wherever they visit among friends and the neighbourhood, they are received and treated as husband and wife. The opinion of the friends of R and S may be treated by the court as :

- (a) Relevant
- (b) Not relevant
- (c) Disputed
- (d) Conclusive

93. Any person aggrieved by the orders of the National Financial Reporting Authority issued under Section 132(4) of Companies Act, 2013, may prefer an appeal before which one among the following bodies ?

- (a) National Company Law Tribunal
- (b) Special Courts
- (c) National Company Law Appellate Tribunal
- (d) Serious Fraud Investigation Office

94. Price/Earnings-to-Growth ratio (PEG ratio) is used to identify :

- (a) High growth businesses
- (b) Highly profitable companies
- (c) Insolvent and high risk companies
- (d) Overvalued and undervalued shares

95. Which one among the following statements is **not** correct ?

- (a) DuPont analysis helps to understand the risk complexion of a firm
- (b) Return on Equity is a function of three ratios — net margin ratio, total assets turnover ratio and financial leverage
- (c) Common size financial statements express all the numbers in a financial statement to a common base
- (d) A higher market capitalization is an effective defence mechanism against any type of takeover bid

96. Following is the information relating to S Limited :

Equity share capital @ ₹ 10 each	₹ 10,00,000
10% Preference shares @ ₹ 10 each	₹ 2,00,000
Profit (after tax @ 35%)	₹ 3,50,000
Depreciation	₹ 60,000
Equity dividend	20%
Market price of equity share	₹ 50

Price-earnings ratio of the company (rounded off) will be :

- (a) 15 times
- (b) 12 times
- (c) 22 times
- (d) 18 times

97. Which of the following statements about financial shenanigans is **not** correct ?

- (a) These include falsifying the accounts
- (b) These include earnings management and creative accounting
- (c) These include use of estimates which are aggressive but with full disclosure in annual report
- (d) These include reporting of rosy picture about the performance of the company to raise funds

98. The accounting practice of income smoothening by creating reserves during good periods and utilizing the same during not so good periods is called :

- (a) Channel Stuffing
- (b) Big Bath Accounting
- (c) Round Tripping
- (d) Cookie Jar Accounting

99. CASA Ratio in relation to a bank implies :

- (a) Ratio of current assets to short term assets
- (b) Ratio of current account deposits to savings account deposits
- (c) Ratio of current account deposits plus savings account deposits to total deposits
- (d) Ratio of capital available to current account deposits plus savings account deposits

100. Following information relates to a company :

Debt-Equity ratio	1 : 1.50
Current assets	₹ 30,00,000
Fixed assets	₹ 22,50,000
Current ratio	1 : 0.30
Preference capital	₹ 6,00,000

Proprietary Fund of the company is :

- (a) ₹ 52,50,000
- (b) ₹ 46,50,000
- (c) ₹ 28,50,000
- (d) ₹ 22,50,000

101. All Scheduled Commercial Banks in India are required to create a reserve fund. What percentage of profits is transferred to this fund as per the RBI notification ?

- (a) At least 25%
- (b) At least 20%
- (c) At least 15%
- (d) At least 10%

102. AB Ltd. owns land and building which are carried in its balance sheet at an aggregate carrying amount of ₹ 10,00,000. The fair value of such asset is ₹ 15,00,000. It exchanges the land and building for a machinery which has a fair value of ₹ 20,00,000, and pays additional ₹ 3,00,000 in cash. Assuming that the transaction has a commercial substance, how much will be the profit on exchange of assets according to Ind AS 16 ?

- (a) ₹ 8,00,000
- (b) ₹ 2,00,000
- (c) ₹ 5,00,000
- (d) ₹ 10,00,000

103. The carrying value of a building in the books of Moon Ltd. as on 31st March, 2021 is ₹ 20,00,000. As on that date, the value in use is ₹ 15,00,000. The fair value less cost of disposal of the same asset is ₹ 13,50,000. How much will be the impairment loss according to Ind AS 36 ?

- (a) ₹ 6,50,000
- (b) ₹ 5,00,000
- (c) ₹ 2,00,000
- (d) ₹ 1,50,000

116. Which of the following statements is correct ?

- (a) In relation to working capital financing, the term 'core current assets' was coined by Chore Committee
- (b) In relation to working capital financing, the term 'core current assets' was coined by Jilani Committee
- (c) In relation to working capital financing, the term 'core current assets' was coined by Tandon Committee
- (d) Core current assets are liquid in nature and are generally financed by short term funds

117. Which one among the following statements in relation to a banking company in India is correct ?

- (a) Every banking company incorporated in India is required to transfer at least 15% of its profits to the reserve fund
- (b) A bank can maintain cash reserve with itself or by the way of balance in the current account with the RBI or by way of net balance in current accounts of one or more of the aforesaid ways
- (c) Every banking company is required to submit a return in the prescribed form and manner to the RBI at the end of each calendar year of all accounts in India which could not be operated for 5 years
- (d) Non-performing assets bear a little amount of risk like normal risk and they do not create any trouble regarding their realisation

118. Which one among the following ratios is *not* considered in computing Z score for predicting corporate bankruptcy as developed by Edward Altman ?

- (a) Working capital to total assets
- (b) Operating cash flows to total assets
- (c) Retained earnings to total assets
- (d) Sales to total assets

119. Capital gearing ratio is the fraction of :

- (a) Preference share capital, debentures and other borrowed funds to equity share capital and reserves & surplus
- (b) Equity share capital and reserves to preference share capital and debentures
- (c) Equity share capital to total of current assets and non-current assets
- (d) Total assets to equity share capital and reserves

120. Which one among the following statements about Q ratio proposed by James Tobin is correct ?

- (a) It is the rate at which value of investments will multiply for investors
- (b) It shows relationship between market valuation and intrinsic value
- (c) It shows what portion of return on equity is the result of debt
- (d) It shows how many times equity is multiplied to get the value of debt

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T.B.C. : KLOS-B-MDCL



Test Booklet Series

Serial

1003241

TEST BOOKLET
MEDICAL SCIENCE



Time Allowed : Two Hours

Maximum Marks : 300

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **DO NOT** write **anything else** on the Test Booklet.
4. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third (0-33)** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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1. Which of the following metabolic disorders is/are cause(s) of acute abdominal pain ?

1. Hyperparathyroidism
2. Acute adrenal insufficiency
3. Diabetes insipidus
4. Porphyria

Select the correct answer using the code given below :

- (a) 3 and 4 only
- (b) 1, 2 and 3
- (c) 1, 2 and 4
- (d) None of the above

2. Anti-obesity drug that is also used for the treatment of Diabetes mellitus as well is :

- (a) Topiramate
- (b) Lorcaserin
- (c) Liraglutide
- (d) Naltrexone

3. Euglycemic DKA (diabetic ketoacidosis) may be observed in diabetic patients being treated with :

- (a) SGLT-2 inhibitors
- (b) DPP-IV inhibitors
- (c) GLP-1 receptor agonists
- (d) Long-acting insulin preparations

4. Which of the following statements with regard to drug rash in HIV infection are correct ?

1. Cutaneous hypersensitivity to drugs occurs more frequently in HIV infection.
2. Sulphonamides and NNRTIs are commonly associated with drug rash.
3. Drug rash in HIV infection is often accompanied by generalized lymphadenopathy.
4. Systemic involvement with fever/organ dysfunction may be life-threatening.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

5. Consider the following statements with regard to hydatid disease :

1. Hydatid cyst is typically acquired in childhood and grows over years.
2. Treatment of Hydatid cysts is excision, whenever possible.
3. Personal hygiene and deworming of dogs reduces prevalence of disease.
4. Prevention is difficult when there is a close association with dogs.

Which of the above statements are correct ?

- (a) 1, 3 and 4
- (b) 1 and 3 only
- (c) 2 and 4 only
- (d) 1, 2, 3 and 4

6. Which of the following are fat soluble vitamins ?

1. Vitamin A
2. Vitamin C
3. Vitamin D
4. Vitamin E

Select the correct answer using the code given below :

- (a) 1 and 3 only
- (b) 3 and 4 only
- (c) 1, 3 and 4
- (d) 2, 3 and 4

7. Which one of the following features is a cause of reactive thrombocytosis ?

- (a) Tissue damage
- (b) Polycythaemia rubra vera
- (c) Chronic myeloid leukemia
- (d) Primary thrombocythemia

8. Which of the following statements are correct regarding heat stroke ?

1. Cooling of patient should begin only after transfer to hospital.
2. Groin, axilla and neck are preferred sites for ice-packs.
3. Ice water immersion can be safely done in unconscious patient.
4. Infusion of 4°C saline may supplement cooling.

Which of the above statements are correct ?

- (a) 2 and 4 only
- (b) 1 and 4 only
- (c) 2, 3 and 4
- (d) 1 and 2 only

9. The force of cardiac muscle contraction is regulated by the :

- (a) Influx of calcium ions through fast calcium channels.
- (b) Influx of calcium ions through slow calcium channels.
- (c) Influx of sodium ions through fast sodium channels.
- (d) Influx of sodium ions through slow sodium channels.

10. Neprilysin is a metallopeptidase which catalyses degradation of natriuretic peptides.

Which one of the following best describes its eventual effect on human physiology ?

- (a) Bronchodilator
- (b) Bronchoconstrictor
- (c) Vasodilator
- (d) Vasoconstrictor

11. Consider the following pairs :

	<i>Phase of normal Jugular Venous Pulse</i>	<i>Its cause</i>
1.	'C' wave	Onset of Atrial Systole
2.	'X' descent	Atrial relaxation
3.	'Y' descent	Emptying of right atrium into right ventricle
4.	'V' wave	Filling of right atrium from vena cava

How many of the above pairs are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

12. Which one of the following is the correct sequence of ECG changes evolving in Acute Myocardial Infarction ?

- (a) T wave inversion, ST elevation, Q wave
- (b) ST elevation, T wave inversion, Q wave
- (c) Q wave, ST elevation, T wave inversion
- (d) T wave inversion, Q wave, ST elevation

28. Consider the following statements with regard to Leishmaniasis :

1. Lymphadenopathy is common in Africa but rare in Indian subcontinent.
2. Incubation period may range from weeks to months.
3. As disease progresses, there is profound Immunosuppression.
4. Without adequate treatment, most patients with Visceral Leishmaniasis may die.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

29. Eosinophilic esophagitis is characterised by which of the following ?

1. Peripheral blood eosinophilia
2. Association with allergic rhinitis
3. Esophageal mucosal eosinophils

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

30. A patient is prescribed a drug for hypertension. Two weeks later, his serum creatinine is found to be 4.2 mg/dL and serum potassium is 5.5 meq/L. Which of the following measures should be considered ?

1. Renal artery doppler study
2. Dietary modification
3. Intravenous pyelography
4. Drug modification

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

31. Which one of the following is responsible for 'dissociated' sensory loss ?

- (a) Foramen magnum syndrome
- (b) Brown-Séquard syndrome
- (c) Central cord syndrome
- (d) Lateral medullary syndrome

32. Which of the following is the most favourable prognostic sign in a patient of Bell's Palsy ?

- (a) Loss of taste sensation
- (b) Presence of axonal degeneration on electromyography
- (c) Presence of incomplete paralysis in the first week of illness
- (d) Maximal weakness is attained by seventh day

33. How do you differentiate seizures from syncope ?

- (a) Aura is present in seizures
- (b) Syncope is accompanied by cyanosis
- (c) Rapid recovery is seen following seizures
- (d) Post ictal amnesia is present in syncope

34. Which of the following are correct regarding Alzheimer's disease ?

1. Impairment of the ability to remember new information
2. Rapid impairment of long-term memory
3. Rare in people under 45 years of age
4. The brain is macroscopically atrophic

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

48. Which one of the following interventions is advised in patients of chronic kidney disease with hyperkalemia ?
- Loop diuretics should be stopped.
 - Calcium resonium is not preferred over zirconium cyclosilicate for potassium binding for chronic use.
 - Dietary intake of spinach and yoghurt should be increased.
 - Angiotensin receptor blockers should replace ACE inhibitors.
49. Follow-up visits for sick children under Integrated Management of Neonatal Childhood Illness Strategy are scheduled as :
- Anemia – 7 days, Pneumonia – 7 days, Diarrhea – 5 days, Moderate acute malnutrition – 14 days
 - Anemia – 7 days, Pneumonia – 2 days, Diarrhea – 3 days, Moderate acute malnutrition – 30 days
 - Anemia – 14 days, Pneumonia – 7 days, Diarrhea – 3 days, Moderate acute malnutrition – 14 days
 - Anemia – 14 days, Pneumonia – 2 days, Diarrhea – 5 days, Moderate acute malnutrition – 30 days
50. In term babies started on room air resuscitation, in the absence of pulse oximetry, room air should be substituted by 100% oxygen if the baby fails to improve in heart rate and breathing by :
- 30 seconds
 - 45 seconds
 - 90 seconds
 - 120 seconds
51. Which of the following skills can a 1-year-old child perform ?
- Drink from a cup without spilling
 - Come when called
 - Build a tower of 2 cubes
 - Scribble
52. Consider the following statements :
- The ideal size of a suction catheter used for newborns in the delivery room should be 12F or 14F.
 - For suctioning to clear airways in a newborn, the suction pressure should be 80 mm – 100 mm Hg.
- Which of the statements given above is/are correct ?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
53. During developmental evaluation, the number of blocks needed for making a gate and for making a bridge is :
- 3 for gate and 3 for bridge
 - 3 for gate and 5 for bridge
 - 5 for gate and 3 for bridge
 - 5 for gate and 5 for bridge

54. What are the risk factors (other than gestation) to be considered while taking management decision for jaundice in infants greater than or equal to 35 weeks gestation ?

1. Acidosis
2. Hypothyroidism
3. Hypothermia
4. Low albumin level

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 3 and 4
- (c) 2, 3 and 4
- (d) 1, 2 and 4

55. The mechanism of action underlying the use of insulin and glucose for management of hyperkalemia is :

- (a) Intracellular shift of potassium by insulin and glucose to counter hypoglycemia.
- (b) Intracellular shift of potassium due to glucose load and insulin to counter hyperglycemia.
- (c) Increased renal elimination of potassium due to insulin and glucose to counter hypoglycemia.
- (d) Utilization of glucose for renal elimination of potassium under action of insulin.

56. Which one of the following conditions is responsible for the largest proportion of under-5 year child death in India ?

- (a) Pneumonia
- (b) Diarrhea and dehydration
- (c) Complications of prematurity
- (d) Birth asphyxia and complications

57. Which of the following are correct regarding the role of Accredited Social Health Activist (ASHA) ?

1. Accompanying pregnant woman to facility for delivery
2. Home care of newborn
3. Facilitating immunization
4. Growth monitoring of children
5. Primary care in diarrhea and pneumonia

Select the correct answer using the codes given below :

- (a) 1, 2, 3 and 4
- (b) 1, 2, 3 and 5
- (c) 2, 3, 4 and 5
- (d) 1, 4 and 5

58. Which of the following are diagnostic features of Autism Spectrum Disorder ?

1. Qualitative impairment of social behaviour
2. Qualitative impairment of verbal communication
3. Qualitative impairment of non-verbal communication
4. Stereotypic and restrictive behavioural pattern
5. Intrusive and interruptive behavioural pattern

Select the correct answer using the code given below :

- (a) 1, 2, 3 and 5
- (b) 2, 3, 4 and 5
- (c) 1, 4 and 5
- (d) 1, 2, 3 and 4

98. If a woman's blood group is found to be Rh negative during pregnancy, then which is the next investigation that is to be done before proceeding for other tests ?

- (a) Indirect Coombs test
- (b) Blood group of the husband
- (c) Genotype of the husband
- (d) Fetal Rh status test

99. What are the common causes for trimester abortion ?

- 1. Genetic factors
- 2. Cervical incompetence
- 3. Inherited thrombophilia
- 4. Endocrine and metabolic (especially Diabetes Mellitus)

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

100. Foetal Growth Restriction is said to be present in those babies whose birth weight is below the :

- (a) 10th centile of the average for that gestational age.
- (b) 12th centile of the average for that gestational age.
- (c) 15th centile of the average for that gestational age.
- (d) 20th centile of the average for that gestational age.

101. The National Family Health Survey-III employed an index of economic status of households called the Wealth Index as one of the background characteristics. In the context of this "Wealth Index", consider the following statements :

- 1. Of the various household assets it took into consideration, per capita income was one.
- 2. It employed the Principal Component Analysis to assign a weight to each household asset.
- 3. It ranked individuals according to the score of the household in which they resided.
- 4. It divided the sample population into quartiles, that is, four groups.

Which of the statements given above are correct ?

- (a) 1 and 2 only
- (b) 1 and 4 only
- (c) 2 and 3 only
- (d) 2 and 4 only

102. Under the HIV Sentinel Surveillance carried out in India, which group among the following is taken as a proxy for the general population ?

- (a) Adolescent girls receiving iron supplements
- (b) Pregnant women attending antenatal clinics
- (c) College students receiving health check-ups
- (d) Truckers receiving health check-ups

103. Consider the following statements regarding the Protection of Children from Sexual Offences (POCSO) Act, 2012, and its subsequent amendments :

1. The Act was introduced by the Ministry of Health and Family Welfare.
2. The Act defines a child as a person below the age of 16 years.
3. The Act deems a sexual assault to be “aggravated” when the abuse is committed by a person in a position of trust or authority vis-à-vis the child.
4. The Act holds people who traffic children for sexual purpose as punishable under the provisions relating to abetment.

Which of the statements given above are correct ?

- (a) 1 and 3 only
- (b) 1 and 4 only
- (c) 2 and 3 only
- (d) 3 and 4 only

104. Consider the following pairs in the context of pneumoconiosis :

<i>Condition</i>	<i>Type of dust</i>
1. Anthracosis	Coal dust
2. Bagassosis	Cotton dust
3. Byssinosis	Cane fibre
4. Siderosis	Silica

How many of the pairs given above are correctly matched ?

- (a) None of the pairs
- (b) Only one of the pairs
- (c) Only two of the pairs
- (d) All four pairs

105. In the context of asbestosis, consider the following statements :

1. Asbestos is the commercial name given to fibrous materials that are essentially nitrates of varying composition.
2. The two types of asbestos are the serpentine variety and the chrysolite variety.
3. Mesothelioma of the pleura and peritoneum may be associated with exposure to asbestos.
4. The sputum of a person exposed to asbestos may demonstrate “asbestos bodies” which are asbestos fibres coated with fibrin.

Which of the statements given above are correct ?

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2 and 3
- (d) 2, 3 and 4

106. Which of the following laws were formulated by Mendel to explain the inheritance of characters ?

1. Law of adherence
2. Law of dominance
3. Law of segregation
4. Law of unit characters

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 3 and 4 only
- (c) 1, 2 and 3
- (d) 2, 3 and 4

107. A researcher measured and recorded the body weights (in kg) of ten adolescent boys as follows :

48, 72, 65, 56, 51, 82, 52, 68, 79, 75

While entering the data into a computer-based spreadsheet, he accidentally entered the last data as 95 instead of 75. Consider the following statements regarding the effect of the wrong data entry on various statistical measurements :

1. This would not affect the range of the data.
2. This would not affect the median of the data.
3. This would not affect the standard deviation of the data.
4. This would not affect the geometric mean of the data.

Which of the statements given above is/are correct ?

- (a) 2 only
- (b) 4 only
- (c) Both 1 and 2
- (d) Both 3 and 4

108. Consider the following statements regarding the transmission of Japanese Encephalitis virus :

1. It is transmitted by *Aedes* mosquito.
2. One of the basic cycles of transmission is Pig → Mosquito → Pig.
3. Man is an incidental 'dead-end' host.
4. Infected pigs manifest severe symptoms of illness and die early.

Which of the statements given above are correct ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) 1 and 4 only

109. Consider the following statements :

Statement-I :

'Bidi' smoking carries higher lung cancer risk than cigarette smoking.

Statement-II :

There is higher concentration of carcinogenic hydrocarbons in 'bidi' smoke as compared to cigarette smoke.

Which one of the following is correct in respect of the above statements ?

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation of Statement-I
- (b) Both Statement-I and Statement-II are correct but Statement-II is not the correct explanation of Statement-I
- (c) Statement-I is correct but Statement-II is incorrect
- (d) Statement-I is incorrect but Statement-II is correct

110. A 15-year-old boy was bitten by a stray dog in the late afternoon of a day while playing. On examination, the boy had multiple transdermal bites on the left leg, along with some oozing of blood. Being a stray dog, the dog's vaccination status was unknown. The bite wounds on the leg of the body are minor in nature.

Consider the following statements regarding the management of the case :

1. Local cleansing of the wounds with soap and water.
2. Immediate suturing of bite wounds, preferably within 4 hours.
3. A course of vaccination for post exposure prophylaxis.
4. Administration of rabies immunoglobulin for passive immunization.

Which of the statements given above are correct ?

- (a) 1 and 3 only
- (b) 1, 2 and 3
- (c) 1, 3 and 4
- (d) 2 and 4 only

111. A 48-year-old adult male belonging to one of the Eastern States of India has presented with elephantiasis. On examination, he has no hydrocele and his genitals are not involved. On making a thick blood film from a night blood survey, microfilariae were observed with general appearance of kinked secondary curves. The caudal end of the microfilariae had two terminal nuclei. Which one among the following is most likely to have been the vector for the disease in this patient ?

- (a) Aedes mosquito
- (b) Anopheles mosquito
- (c) Culex mosquito
- (d) Mansonia mosquito

112. Consider the following steps involved in the purification of water in a rapid sand filter :

- 1. Coagulation
- 2. Filtration
- 3. Flocculation
- 4. Rapid mixing

Which one among the following best represents the correct sequence of the steps ?

- (a) 1 → 2 → 3 → 4
- (b) 1 → 4 → 3 → 2
- (c) 3 → 1 → 2 → 4
- (d) 3 → 2 → 4 → 1

113. A 46-year-old adult woman has presented with peripheral neuritis. Her staple diet, on which she has been subsisting mainly, is white or polished rice. Which one among the following is the most probable diagnosis for this case ?

- (a) Beriberi
- (b) Pellagra
- (c) Pernicious anemia
- (d) Scurvy

114. Consider the following fatty acids :

- 1. Lauric acid
- 2. Linoleic acid
- 3. Palmitic acid
- 4. Stearic acid

Which of the above is/are polyunsaturated fatty acid(s) ?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 2 and 4 only

115. Consider the following statements about the calculation of Human Development Index (HDI) :

- 1. The HDI value of a country can range between 0 and 1.
- 2. The HDI value is the arithmetic mean of three dimension indices.
- 3. The dimension 'a decent standard of living' is measured by Gross National Income per capita.

How many of the statements given above are correct ?

- (a) None of the statements
- (b) Only one of the statements
- (c) Only two of the statements
- (d) All three statements

116. Of the following diseases, which one is subject to International Health Regulations ?

- (a) Typhoid
- (b) Cholera
- (c) Bacillary dysentery
- (d) Intestinal tuberculosis

117. For travellers coming from yellow fever infected areas, India and many other countries require a valid certificate against yellow fever. The validity of the certificate begins how many days after the date of vaccination ?

- (a) 6 days
- (b) 10 days
- (c) 15 days
- (d) 28 days

118. Deep fried fast foods are considered to be unhealthy, most of all, due to the presence of :

- (a) Saturated fatty acids
- (b) Monounsaturated fatty acids
- (c) Trans fatty acids
- (d) Polyunsaturated fatty acids

119. Typically, vegetable proteins do not provide all of Essential Amino Acids (EAA). However, when two or more vegetarian foods are eaten together, they compensate for the deficient EAA in the other. A cereal-pulse combination makes up for which deficient EAA in pulses ?

- (a) Lysine
- (b) Methionine
- (c) Threonine
- (d) Valine

120. Consider the following statements with regard to dietary fibre :

1. Animal foods contain no dietary fibre.
2. Too much of dietary fibre can decrease the absorption of valuable micronutrients.
3. Gum and pectin, forms of fibre, can increase post-prandial glucose in blood.
4. Mostly dietary fibre constitutes simple carbohydrates.

How many of the statements given above are correct ?

- (a) Only one statement
- (b) Only two statements
- (c) Only three statements
- (d) All four statements

27 EXAM-2023

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T.B.C. : KLOS-X-ARCH



Test Booklet Series

Serial 1000981

**TEST BOOKLET
ARCHITECTURE**



Time Allowed : Two Hours

Maximum Marks : 300

INSTRUCTIONS

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KLOS-X-ARCH

(1 - A)

1. Dolmen, Robie House, Villa Shodhan and Fallingwater are examples of architectural compositions which can be categorized under
 - (a) planar compositions
 - (b) angular designs
 - (c) columnar designs
 - (d) architectural jaali designs

2. Which one of the following is expressed as the heat potential per unit area, as a calorific value in Joules/m²?
 - (a) Light load
 - (b) Fire load
 - (c) Specific load
 - (d) Heat load

3. Which one of the following is the triangular portion of wall enclosing the end of a pitched roof?
 - (a) Girder
 - (b) Motif
 - (c) Gable
 - (d) Plenum

4. Which one of the following is a wedge-shaped tread used in circular, spiral, and turning stairs?
 - (a) Rabbet
 - (b) Vitreous
 - (c) Valance
 - (d) Winder

5. Which of the following buildings is **not** designed by Le Corbusier?
 - (a) Carpenter Center for the Visual Arts, Harvard University, Cambridge, Massachusetts.
 - (b) Taliesin West, Scottsdale, Arizona, USA.
 - (c) Mill Owners' Association Building, Ahmedabad, India.
 - (d) The High Court Chandigarh, Capitol Complex, India.

6. The natural ventilation principle, evident in the Pantheon of Rome is
 - (a) exhaust vent
 - (b) venting tower
 - (c) wind scoop
 - (d) windbreak

7. Saturation in colours is referred to
 - (a) how light or dark the colour appears.
 - (b) purity of the colour.
 - (c) appearance of the colour.
 - (d) blackness of the colour.

8. Which one of the following colours stands out in relation to other nearby hues?
 - (a) Accent colour
 - (b) Descent colour
 - (c) Important colour
 - (d) Analogous colour

9. Which one of the following is a progression of whole numbers wherein each term is the sum of the preceding two numbers?
 - (a) Euclidean series
 - (b) Fibonacci series
 - (c) Pythagorean series
 - (d) Golden ratio series

10. Lightening a hue's normal value by adding white creates
 - (a) a tone of that hue.
 - (b) a tint of that hue.
 - (c) a shade of that hue.
 - (d) a chroma of that hue.

50. Match the following :

<i>Group A</i> (Historic Cities)	<i>Group B</i> (Short description associated with the city layouts)
P. Venice in 1575	1. The megalopolis of continental Asia.
Q. London in 1682	2. The streets of the city are intersected by canals, which are spanned by wooden and stone bridges.
R. Shanghai in 1935	3. All the town burned, and a miserable sight of Paul's Church, withal the roof fallen, and the body of the quire fallen.

Select the correct answer using the code given below :

	P	Q	R
(a)	3	1	2
(b)	2	3	1
(c)	3	2	1
(d)	2	1	3

51. On the Ekistic scale of Doxiadis, there are

- (a) 12 levels of settlement size consisting of a single man to 50 – 60 billion people.
- (b) 15 levels of settlement size consisting of a single man to 50 – 60 billion people.
- (c) 15 levels of settlement size consisting of a single man to 30 – 50 billion people.
- (d) 12 levels of settlement size consisting of a single man to 30 – 50 billion people.

52. In any land use transportation study, Lowry model considers the spatial characteristics of an urban area in terms of three broad sectors of activity. These three broad sectors are

- (a) Population, Land use and Transportation
- (b) Population, Employment and Service sector
- (c) Land use, Traffic volume and Service sector
- (d) Land use, Employment and Transportation

53. Who presented a theory on hexagonal system of settlement pattern with a superimposition of physical constraints ?

- (a) Doxiadis
- (b) Edwin Lutyens
- (c) Patrick Abercrombie
- (d) Clarence Stein

54. In the Vedic period, which structure was always kept in the center of the settlement ?

- (a) King's palace
- (b) Court
- (c) Water pond
- (d) Temple

55. As per the Manual of Architectural Practice (MAP) of the Council of Architecture, India, which of the following tenders quotes a fixed price, if the quote is varied, it involves contractual problems and methodology to arrive at the rates for addition, deletion and alterations would be necessary and it is to be built in the tender document ?

- (a) Cost plus fee tender
- (b) Turnkey tender
- (c) Lump sum tender
- (d) BOOT tender

72. Which one of the following plants is established as part of the flora of a locale other than its place of origin ?
 (a) Native plant
 (b) Invasive plant
 (c) Endemic plant
 (d) Naturalised plant
73. Which one of the following is a measure of the amount of energy released during an earthquake ?
 (a) Earthquake magnitude
 (b) Fault
 (c) Isoseismal
 (d) Epicentral distance
74. Consider the following statements for earthquake-prone areas :
 1. Adobe walls are commonly used.
 2. Diagonal cracks lead from the edges of windows to the bottom.
 3. If the wall between window and door or between opening and corner is not long enough.
 4. Wattle and Daub wall system is suitable for earthquake-prone areas.
 Which of the above statements are correct ?
 (a) 1, 2 and 3 only
 (b) 1, 3 and 4 only
 (c) 2, 3 and 4 only
 (d) 1, 2, 3 and 4
75. Which of the following statements is *not* a correct reason for buildings shaped like a box, such as rectangular or square, both in plan and elevation, being inherently stronger than ones that are L-shaped or U-shaped, that is buildings with wings?
 (a) Asymmetric compositions can present local deformations.
 (b) Local deformations in asymmetric compositions are caused due to the presence of re-entrant corners and excessive openings.
 (c) Box-shaped buildings can present ideal seismic behaviour, because they have same displacements at every point in the slab.
 (d) Box-shaped buildings can present ideal seismic behaviour, because they have different displacements at every point in the slab.
76. Which one of the following comes under hydrological disaster ?
 (a) Volcano
 (b) Tsunami
 (c) Landslide
 (d) Earthquake
77. Match the following :

<i>Group A</i>	<i>Group B</i>
<i>(Disaster)</i>	<i>(Ministry)</i>
P. Landslide	1. Ministry of Environment, Forest and Climate Change
Q. Tsunami	2. Ministry of Housing and Urban Affairs
R. City Floods	3. Ministry of Earth Sciences
S. Industrial	4. Ministry of Mines

 Select the correct answer using the code given below :

	P	Q	R	S
(a)	1	2	4	3
(b)	1	2	3	4
(c)	4	3	1	2
(d)	4	3	2	1
78. Which one of the following disaster agencies is responsible to provide human resource development and capacity building for disaster management ?
 (a) NDMA
 (b) NDRF
 (c) NIDM
 (d) NCMC
79. "Densities below three to four dwelling units per acre, auto dependency, a road system designed to minimize traffic in residential areas, single-use zoning, discontinuous developments and stand-alone buildings" – essentially trigger the phenomenon of
 (a) Illegal construction
 (b) Urban sprawl
 (c) Conurbation
 (d) Urban explosion

87. Which one of the following is *not* associated with the preconstruction phase of the project ?
- Scope planning
 - Scope definition
 - Scope validation
 - Scope verification
88. In construction project management, PERT refers to
- Program Evaluation and Review Technique
 - Project Evaluation and Review Time
 - Project Extension and Review Time
 - Program Evaluation and Research Technique
89. Damp-proofing technique
- is basically a liquid-applied damp-proofing.
 - involves brushing a bituminous-based tar like coating on the area.
 - involves plastering a cement-based mixture over the area.
 - is intended to resist water pressure.
90. Which one of the following is the maximum population size of a species that an ecosystem or habitat can support indefinitely ?
- Maximum city
 - Sustainability
 - Carrying capacity
 - Biomagnification
91. Which one of the following is an area of uniform environmental conditions providing a living place for a specific assemblage of plants and animals ?
- Biotope
 - Biodiversity hotspot
 - Patch
 - Ecosensitive area
92. "Gaia Theory" stating that the biosphere contributes to the stability of the planet's physical processes, such as temperature, ocean water salt levels, etc., allowing life to flourish, is proposed by
- Ian McHarg
 - Christopher
 - James Lovelock
 - Madhav Gadgil
93. Phosphate pollution of rivers and lakes causes the algal bloom which reduces dissolved oxygen in water and disrupts the food chain. The process is called
- Oligotrophy
 - Desertification
 - Fermentation
 - Eutrophication
94. Which one of the following is elevated temperatures in urban areas caused by heat fluxes due to the presence of buildings, roads, and so on, and to emissions of pollutants ?
- Greenhouse effect
 - Carbon trapping
 - Heat island effect
 - Physical weathering

CRT (RT-XXI) EXAM-2023

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T.B.C. : CLAS-A-WLA

Test Booklet Series

Serial No.

1015737 TEST BOOKLET



LAW

Time Allowed : Two Hours

Maximum Marks : 300

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1. Which one among the following provisions of the Constitution of India requires a guardian to provide opportunities for education to his ward between the age of six years and fourteen years?

- (a) Article 21A
- (b) Article 15(6)
- (c) Article 24
- (d) Article 51A

2. Consider the following statements :

- 1. People of India have liberty of faith and worship.
- 2. Morality cannot override the freedom of faith and worship.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

3. Consider the following statements with regard to the Fundamental Right to Freedom of Religion :

- 1. No religious instruction shall be provided in any educational institution wholly maintained out of State funds.
- 2. Religious instructions may be provided in an educational institution established by any trust which requires that religious instructions shall be imparted in that institution even though that institution is administered by the State.

3. No teacher or student attending any educational institution recognized by the State shall be compelled to attend any religious worship that may be conducted.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 1 and 3 only

4. Consider the following statements :

- 1. Only questions of law can be the subject matter of litigation before the Supreme Court under Article 131 of the Constitution of India.
- 2. Any question involving the legal right of a State against the Government of India can be decided only by the Supreme Court.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

5. Which of the following statements is/are correct?

1. The quorum to constitute a meeting of the House of the People is one-tenth of the total membership of the House.
2. If at any time during a meeting of the House of the People there is no quorum, the Speaker has no option but to suspend the meeting.
3. The Chairman of the Council of States has only a casting vote in case of equality of votes.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 3
- (c) 2 and 3
- (d) 3 only

6. Which of the following statements relating to various provisions of the Constitution of India is/are correct?

1. The members of the Committee of Parliament on Official Language are elected by the members of the House of the People and the Council of States in accordance with the system of proportional representation by means of single transferable vote.

2. The Chairman and members of the Official Languages Commission are appointed by the President of India.
3. The representatives of every State in the Council of States are elected by the elected members of the Legislative Assembly of the State in accordance with the system of proportional representation by means of single transferable vote.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

7. Under the Constitution of India, for the Union Territory of Puducherry, the Parliament may by law create which of the following?

1. An elected or partly elected and partly nominated body to function as a Legislature
2. A Council of Ministers

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

8. Which of the following is/are **not** considered to be an amendment/ amendments of the Constitution of India?

1. Law made by the Parliament by exercising powers under Articles 2 and 3
2. Law made by the Parliament with regard to Union Territory referred to in Article 239A

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

9. Consider the following statements in respect of proceedings in the Parliament :

1. The validity of any proceedings in the Parliament can be called in question on the ground of irregularity of procedure.
2. An officer of the Parliament having the power to maintain order in the Parliament shall be subject to the jurisdiction of the Supreme Court in respect of the exercise of power for that purpose.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

10. Consider the following statements :

1. The total number of Ministers in a State cannot exceed fifteen percent of the total number of members of the Legislative Assembly of the State concerned and there cannot be less than twelve Ministers in any State.
2. The Ministers in every State hold office during the pleasure of the Governor.
3. No person below the age of twenty-one years can be appointed as a Minister.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

11. Which one of the following statements is **not** correct?

- (a) A member of a State Public Service Commission holds office up to 62 years of age.
- (b) Any member of a Public Service Commission can be removed from office on the ground of misbehaviour in the prescribed manner.
- (c) In the absence of the Chairman of the Union Public Service Commission, the seniormost member of the Commission performs the duties of the Chairman.
- (d) The Chairman of the Union Public Service Commission is not eligible for any appointment with any government.

12. In which of the following States, it is mandatory to appoint a Minister in charge of tribal welfare with additional charge of the welfare of the Scheduled Castes and Scheduled Tribes?

- (a) Chhattisgarh, Himachal Pradesh and Madhya Pradesh
- (b) Chhattisgarh, Jharkhand, Tripura and Madhya Pradesh
- (c) Assam, Chhattisgarh, Odisha and Madhya Pradesh
- (d) Chhattisgarh, Jharkhand, Madhya Pradesh and Odisha

13. There is **no** express provision for tribunals under which one of the following provisions of the Constitution of India?

- (a) Article 323B
- (b) Article 371D
- (c) Article 217
- (d) Article 227

14. Under the Indian Penal Code, 1860, who among the following is **not** considered a 'public servant'?

- (a) A member of a Panchayat assisting a public servant
- (b) An arbitrator
- (c) Every person paid commission for the performance of any public duty by the government
- (d) An employee of a government company

15. Consider the following statements :

1. The words 'government company' have been used but not defined under the Indian Penal Code, 1860.
2. The words 'movable property' have been used but not defined under the Indian Penal Code, 1860.
3. The words 'electronic record' have been used as well as defined under the Indian Penal Code, 1860.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2
- (c) 2 and 3
- (d) 3 only

16. How many kinds of punishments have been provided under the Indian Penal Code, 1860?

- (a) Two
- (b) Three
- (c) Four
- (d) Five

17. Which of the following causes of death of a person does/do **not** amount to an offence?

1. An act causing death of a person by an intoxicated person
2. An act causing death of a person by someone who caused death unintentionally and did the act with the consent of the person whose death was caused
3. An act done in good faith for the benefit of the person whose death was caused unintentionally without his consent as he was not in a position to give his consent

Select the correct answer using the code given below.

- (a) 1
- (b) 2 only
- (c) 2 and 3
- (d) 3 only

18. Under which one of the following situations, a person can be punished with imprisonment extending up to five years?

- (a) Makes any imputation during the performance of a religious ceremony that any class of persons on account of their religion cannot bear true faith and allegiance to the Constitution of India
- (b) Propagates during a Panchayat meeting that persons belonging to a particular caste be denied of their rights as citizens of India
- (c) Makes an appeal during an election campaign concerning the obligation of any class of persons belonging to a particular region to cause feelings of enmity between such class of persons and other persons
- (d) Makes any imputation during a community meeting that any class of persons on account of their religion will not uphold the sovereignty and integrity of India

19. Selling, distributing or circulating in any manner any obscene book, paper, pamphlet is an offence punishable with imprisonment **except** in which of the following cases?

- 1. Any representation engraved in any ancient monument whether or not covered under Act No. 24 of 1958
- 2. Any obscene book, pamphlet, paper kept bona fide for religious purposes

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

20. Consider the following statements with regard to causing grievous hurt by the use of acid :

- 1. Voluntarily causing partial deformity even of a reversible nature may be punishable with a sentence of imprisonment for life.
- 2. The offender in a case of grievous hurt caused by acid may be imposed fine which has to be just and reasonable to meet the medical expenses of treatment of the victim.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

21. A man who monitors the use of the internet, email or any other form of electronic communication by a woman

1. commits the offence of stalking under the Indian Penal Code, 1860
2. does not commit the offence of stalking under the Indian Penal Code, 1860 if it proves in the court that his conduct was reasonable and justified under the circumstances
3. does not commit the offence of stalking under the Indian Penal Code, 1860 as he claims that he pursued the conduct for detecting a crime

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1, 2 and 3
- (c) 1 and 2 only
- (d) 2 and 3 only

22. In which one of the following kinds of offences, the punishment is different?

- (a) House-trespass in order to commit an offence punishable with imprisonment for life
- (b) House-trespass in order to commit an offence punishable with death
- (c) Grievous hurt caused whilst committing lurking house-trespass
- (d) Lurking house-trespass by night

23. Consider the following statements :

1. A person who obtains custody of a boy aged seventeen years for the purposes of using him for begging is punishable for the offence of kidnapping under Section 363A of the Indian Penal Code, 1860 as the boy was minor.
2. A person who obtains custody of a girl aged seventeen years for the purposes of using her for begging is punishable for the offence of kidnapping under Section 363A of the Indian Penal Code, 1860 as she was minor.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

24. Under the Indian Evidence Act, 1872, which of the following is/are 'document(s)'?

1. A caricature
2. An inscription on a metal plate
3. A plan

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

25. Do the facts not otherwise relevant become relevant in any of the following cases under the Indian Evidence Act, 1872?

1. They become relevant if they are inconsistent with any fact in issue.
2. They do not become relevant if by themselves they make the existence of any fact in issue highly improbable.

Select the correct statement(s) using the code given below.

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

26. Which of the following does/do **not** amount to admission under the Indian Evidence Act, 1872?

1. Statement made by an agent to any party to the proceeding if the court regards him as expressly or impliedly authorized to make the same
2. Statement made by a party to the suit suing in a representative capacity
3. Statement made by a person from whom parties to the suit have derived their interest in the subject matter of the suit

Select the correct answer using the code given below.

- (a) 1 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) 1, 2 and 3

27. Consider the following legal propositions under the Indian Evidence Act, 1872 :

1. Confession by an accused while in police custody cannot be proved against him in any case.
2. Confession otherwise relevant becomes irrelevant because of promise of secrecy.
3. Confession otherwise relevant does not become irrelevant in consequence of a deception practised on the accused person for the purpose of obtaining it.

Which of the above is/are correct?

- (a) 1
(b) 2 only
(c) 3 only
(d) 2 and 3

28. Consider the following statements as to relevancy under the Indian Evidence Act, 1872 :

1. A previous conviction is not relevant as evidence of bad character.
2. In a criminal proceeding involving the issue of bad character of the accused, the fact that the accused has a bad character is irrelevant.

Which of the statements given above is/are correct?

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

29. Which one among the following statements with regard to the Indian Evidence Act, 1872 is correct?

- (a) Whenever the opinion of any living person is relevant, the grounds on which such opinion is based are not relevant.
- (b) In criminal cases, the fact that the accused is of a good character is irrelevant.
- (c) In civil cases, the fact that the character of any person is such as to affect the amount of damage which he ought to receive is relevant.
- (d) In civil cases, the fact that the character of any person concerned is such as to render probable any conduct imputed to him is relevant.

30. Under the Indian Evidence Act, 1872, the presumption of the court in any proceedings involving secure electronic signature that the secure electronic signature is affixed by subscriber with the intention of signing or approving the electronic record is

- 1. rebuttable
- 2. irrebuttable

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

31. Which of the following statements is/are correct if a married woman has committed suicide within seven years of her marriage?

- 1. The husband and/or his relatives would be liable as abettor(s).
- 2. The court may presume, in the light of all the other circumstances of the case, that the suicide had been abetted by the husband and his relatives.
- 3. The question of presumption in the above case would arise only if it is shown that the husband and/or his relatives had subjected the woman to cruelty.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

32. Which of the following is **not** a duty of an agent to the principal under the Indian Contract Act, 1872?

- (a) To conduct business with skill and diligence
- (b) To communicate with principal in case of difficulty
- (c) To be indemnified against consequences of lawful acts
- (d) To render accounts to the principal on demand

33. X lends her new car to G for his own driving. G allows his friend F to drive the car. F, on instructions of G, drives with caution and care, but still the car gets slightly scratched while driving through the market. Is G liable to compensate X under the Indian Contract Act, 1872?

- (a) Yes, because it is G's duty to take care of the goods bailed
- (b) Yes, because the use of goods bailed must be authorized
- (c) No, because G had taken due care
- (d) No, because there was no express mention about compensation in the contract

34. Where a pawnor makes default in payment of debt, what is/are the option(s) available to the pawnee?

1. Bring a suit against the pawnor
2. Retain the goods pledged as a collateral security
3. Sell the goods pledged

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 only
- (d) 1, 2 and 3

35. X guarantees to S the payment of a bill of exchange by T, the acceptor. The bill is dishonoured by T. The liability for payment of X under the Indian Contract Act, 1872

- (a) is limited to the principal amount of the bill since the interest is to be paid by the principal debtor as this is not a case of continuing guarantee
- (b) is limited to the interests payable only as the principal amount of the bill since the surety can be discharged by variance in terms of the contract
- (c) extends to the amount of the bill since it is implied that the principal amount is guaranteed
- (d) extends to the interest and charges since the surety's liability is coextensive with that of the principal debtor

36. J contracts with K to deliver 250 kg of rice before the end of year 2022. J delivered 130 kg till 31st December, 2022 and none after that. K retains the delivered rice. For the 130 kg of rice, K is required to pay to J although the entire quantity was not delivered. This principle under the Indian Contract Act, 1872 is referred as

- (a) doctrine of restitution
- (b) *quid pro quo*
- (c) doctrine of frustration
- (d) doctrine of express and implied contracts

37. *D*, a singer, contracts to sing in *L*'s theatre for two nights every week for two months. On the sixth night, *D* wilfully absents herself after which *L* rescinds the contract. In this respect, which of the following statements is/are correct?

1. *L* must pay *D* for the five nights that she performed.
2. *L* can claim compensation for damage due to non-fulfilment of contract.
3. *L* cannot claim compensation since he himself rescinded the contract.

Select the correct answer using the code given below.

- (a) 1 only
(b) 1 and 3
(c) 1 and 2
(d) 2 only

38. The promisee in a contract of indemnity is entitled to recover

1. all damages which he may be compelled to pay in a suit to which the promise of indemnity applies
2. all costs which he may be compelled to pay in a suit in bringing or defending it if the promisor authorized him to do so
3. all sums which he may have paid under terms of any compromise of any suit if he was authorized to do so

Select the correct answer using the code given below.

- (a) 1 and 2 only
(b) 3 only
(c) 1 and 3 only
(d) 1, 2 and 3

39. *T* sells, by auction to *E*, old coins, which he knows to be fake. This contract is

- (a) void
(b) voidable
(c) valid
(d) agreement against public policy

40. Which one among the following is **not** a mode of revocation of a proposal made by *G* to *Y*?

- (a) By death of *G*, only if the fact of his death comes to the knowledge of *Y* before acceptance
(b) By failure of *Y* to fulfil a condition precedent to acceptance
(c) By lapse of time prescribed in the proposal
(d) By insanity of *G* whether or not the fact comes to the knowledge of *Y* before acceptance

41. When one person signifies to another her willingness to do or to abstain from doing anything, with the view to obtain the assent of that other to such act or abstinence, this is

- (a) proposal
- (b) promise
- (c) reciprocal promise
- (d) consideration for promise

Select the correct answer using the code given below.

- (a) 1 and 2
- (b) 2 and 3
- (c) 2 only
- (d) 3 only

42. Which of the following statements in respect of a 'holder in due course (HIDC)' under the Negotiable Instruments Act, 1881 is/are **not** correct?

1. HIDC is a person who becomes the possessor of a negotiable instrument for consideration.
2. HIDC is the bearer, payee or indorsee of an instrument payable to order, after the amount mentioned in it became payable.
3. HIDC is a person who obtained the instrument without having sufficient cause to believe that any defect exists in the title of the person from whom he derived his title.

43. Which one of the following judgments relates to dishonour of cheque due to 'stop payment' order given to the bank by the drawer of cheque under the Negotiable Instruments Act, 1881?

- (a) *MMTC Ltd. v. MEDCHL Chemicals & Pharma (P) Ltd.* (2002) 1 SCC 234
- (b) *G. J. Raja v. Tejraj Surana*, AIR 2019 SC 3817
- (c) *Surinder Singh Deswal v. Virender Gandhi* (2020) 2 SCC 514
- (d) *Laxmi Dyechem v. State of Gujarat* (2012) 13 SCC 375

44. In order to reduce delay in legal proceedings pertaining to dishonour of cheques, the Negotiable Instruments Act, 1881 was amended in 2018. Which of the following provisions was/were introduced with the said amendment?

1. The power of the court to direct interim compensation
2. The power of the appellate court to order payment pending appeal against conviction
3. The power of the court to try cases summarily

Select the correct answer using the code given below.

- (a) 2 and 3
- (b) 3 only
- (c) 2 only
- (d) 1 and 2

45. Which one of the following statements is **not** correct in respect of material alteration of a negotiable instrument?

- (a) Any material alteration renders the same voidable as against anyone who is a party thereto at the time of making such alteration.
- (b) A material alteration made in order to carry out the common intention of the original parties can be said to be valid.

(c) An alteration made by an indorsee discharges his indorser from all liabilities to him in respect of the consideration thereof.

(d) An alteration made by the holder, by crossing it generally, is not considered to be a material alteration.

46. *M* owned a land jointly with her minor son *S*. *M* sold the property to *B*. *S*, on attaining majority, claimed the contract to be void. After the suit was decreed in favour of *S*, *S* dies. *M* as class I heir of *S* inherits the property. *B* now claims the property from *M* as the sole owner. *B*'s claim is

(a) valid, as per Section 43 of the Transfer of Property Act, 1882

(b) valid, as after the death of *S*, *M* becomes the sole owner

(c) not valid, since the court had decreed the suit of *S*

(d) not valid, as *B* did not acquire the property under fraudulent or erroneous belief

47. X transfers property to A, a minor, and his intended wife successively for their lives, and, after the death of the survivor, for the second son of the intended marriage for life, and after his death, for the youngest child of A. This transfer is

- (a) valid, as A is living when the transfer is made
- (b) valid, as the Transfer of Property Act, 1882 (TPA) permits transfer for benefit of unborn person
- (c) not valid, since the rights of the second son do not extend to X's remaining interest in the property under the TPA
- (d) not valid, since the TPA expressly provides for transfer between living persons

48. X, a mortgagor, transfers his field absolutely to Y, the mortgagee, subject to the condition that Y will retransfer it to X upon payment of mortgage money. This form of mortgage is

- (a) usufructuary mortgage
- (b) English mortgage
- (c) mortgage by conditional sale
- (d) mortgage by deposit of title deeds

49. Z creates a life interest in respect of all his properties in favour of S and provides for absolute transfer of the same to S's first unborn child U, who is to get the property on attaining majority. U dies at the age of 10 years. The property after U's death

- (a) reverts back to Z or his legal heirs
- (b) belongs to the legal heirs of U
- (c) can be claimed by S, or his legal heirs
- (d) belongs to Z as the transfer is void *ab initio*

50. G transfers his property to T for life and then to the unborn children of T with the condition that any female child born is to get only a life interest. Under the Transfer of Property Act, 1882 (TPA), the said transfer is

- (a) void, since it is hit by the rule against perpetuity
- (b) valid, since transfer to class of heirs is permissible under the TPA
- (c) void, since life interest in respect of unborn class of persons is not permitted under the TPA
- (d) valid in respect of the interest of the son(s), but fails in respect of the interest of the daughter(s)

51. *F* institutes a suit before the civil court on 1.1.2023 challenging the title of his brother *E* in a property. On 31.1.2023, *E* sells the property to a friend *Z*. The matter was then transferred on 1.4.2023 to a different court for want of jurisdiction. The said sale of the property is

- (a) valid, since the suit instituted was not before a proper court
- (b) valid, since the Transfer of Property Act, 1882 does not prohibit such transfers expressly
- (c) void, since the matter was pending before the court when the sale was made
- (d) void, since the transfer was not made on good faith

52. Which one of the following documents needs to be compulsorily registered under Section 3 of the Registration Act, 1908?

- (a) Instrument other than will which purports to create, declare or extinguish any right, title or interest to or in immovable property
- (b) Lease of immovable property not exceeding one year
- (c) Document containing contract to transfer for consideration any immovable property as part performance under Section 53A of the Transfer of Property Act, 1882
- (d) Will

53. The registering officer under the Registration Act, 1908 may not refuse to register the document which

- (a) is in a language that he does not understand and which is not commonly used in the district
- (b) displays interlineation, blank, erasure or alteration
- (c) being a sale deed relates to immovable property if it does not contain a description of such property sufficient to identify the same
- (d) the Registrar, at his discretion, thinks that such document cannot be registered

54. Who among the following persons is **not** authorized to present documents for registration under Section 32 of the Registration Act, 1908?

- (a) Representative or assign of a person executing or claiming under the same
- (b) A person authorized by power-of-attorney executed before or authenticated by a Notary Public if the principal at the time resides in India
- (c) A person authorized by power-of-attorney executed before or authenticated before or authenticated by the Registrar within whose district the principal resides
- (d) Agent of the concerned person

55. The court has power to order separate trials in which of the following cases?

1. When the joinder of the plaintiffs might be embarrassing
2. When the joinder of the defendants might delay the trial
3. When the joinder of the plaintiffs/defendants might embarrass or delay the trial

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

56. Which one of the following is a correct match under the Code of Civil Procedure, 1908?

- (a) Recognized agents : Order IV and pleadings
- (b) Issue and service : Order V of summons
- (c) Plaint : Order VI
- (d) Set-off and counter-claim : Order VII

57. In which one of the following cases, a suit **cannot** be dismissed?

- (a) Where on the day fixed for the defendant to appear in court it is found that the defendant could not be served with summons on account of failure of the plaintiff to pay the prescribed court-fee for service

(b) Where the defendant appears in court on the day fixed for the defendant to appear in court without being served with summons

(c) Where neither party appears when the suit is called for hearing

(d) Where the plaintiff fails to apply within seven days for the issue of fresh summons after the summons already issued were returned unserved

58. Under the Code of Civil Procedure, 1908, where the defendant appears but not the plaintiff when the suit is called for hearing, what action/course of action may follow?

1. The suit may be dismissed.
2. The court may pass a decree based on the admission of the claim by the defendant.
3. The plaintiff cannot file a fresh suit in respect of the same cause of action.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

59. Which one of the following statements with regard to return of a plaint under the Code of Civil Procedure, 1908 is **not** correct?

(a) Only at the initial stage of the suit, a plaint can be returned to be presented to the court in which the suit should have been instituted.

(b) An appellate court has power to set aside a decree passed in a suit and return the plaint to the court in which the suit should have been instituted.

(c) While returning a plaint, the judge must endorse thereon the date of its presentation and return, the name of the party presenting it and brief statement of reasons for returning the plaint.

(d) The court returning the plaint on the ground of lack of jurisdiction has power to fix a date for the appearance of the parties in the court to which the plaint is proposed to be transferred.

60. Consider the following statements with regard to the Banking Regulation Act, 1949 :

1. The Central Government has power to suspend the operation of any of the provisions of the Act for a total period not exceeding one year.

2. The power to suspend the operation of the provisions of the Act can be exercised by the Governor of the Reserve Bank of India in certain cases for certain period.

3. An order of suspension of the provisions of the Act by the Central Government cannot be for more than sixty days.

Which of the statements given above is/are correct?

(a) 1 only

(b) 2 only

(c) 2 and 3 only

(d) 1, 2 and 3

61. The term 'substantial interest' for the purposes of the Banking Regulation Act, 1949 may be in relation to

1. a company
2. a firm

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

62. The provisions of the Banking Regulation Act, 1949 with respect to speedy disposal of winding-up proceedings have overriding effect over the provisions of which of the following Acts if they are inconsistent with the aforesaid provisions?

1. The Companies Act, 1956 (now 2013)
2. The Code of Civil Procedure, 1908
3. The Code of Criminal Procedure, 1973

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

63. Which among the following has exclusive jurisdiction to entertain and decide any claim made by or against a banking company which is being wound up?

- (a) The Reserve Bank of India
- (b) The High Court
- (c) The National Company Law Tribunal
- (d) The National Company Law Appellate Tribunal

64. Consider the following legal propositions with respect to the Limitation Act, 1963 :

1. Every suit not instituted within the prescribed period of limitation shall be dismissed subject to Sections 4 to 24 of the Limitation Act, 1963 even if the plea of bar of limitation has not been raised.
2. Where once time has begun to run, no subsequent disability to institute a suit stops it.

Which of the above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

65. Consider the following statements :

1. The Code of Criminal Procedure, 1973 is not an exhaustive code containing the entire law pertaining to investigation and trial of all offences.
2. The words and expressions used but not defined in the Code of Criminal Procedure, 1973 have to be read in the light of the words and expressions given in the Indian Penal Code, 1860.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

66. With regard to the powers of Magistrates to pass sentences, which one of the following statements is **not** correct?

- (a) The Court of Chief Judicial Magistrate cannot pass a sentence of imprisonment exceeding ten years.
- (b) The Court of Magistrate of First Class cannot pass a sentence of imprisonment exceeding three years.
- (c) The Court of Magistrate of Second Class cannot pass a sentence of imprisonment exceeding one year.
- (d) The Court of Chief Metropolitan Magistrate cannot pass a sentence of imprisonment exceeding seven years.

67. Every High Court has inherent power to

1. make such orders as might be necessary to give effect to any order under the Code of Criminal Procedure, 1973
2. secure the ends of justice
3. prevent abuse of the process of any court

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

68. Which of the following statements with regard to trials under the Code of Criminal Procedure, 1973 is/are correct?

1. For up to three offences of the same kind, the accused may be tried at one trial.
2. The three offences for which the accused may be tried at one trial must have been committed within a span of six months.
3. The three offences may be in respect of different persons but punishable with the same amount of punishment under the same Section of the Indian Penal Code, 1860.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) 2 and 3
- (d) 1 and 3

69. In any inquiry or trial under the Code of Criminal Procedure, 1973, a previous conviction or acquittal may be proved by which of the following?

1. By an extract certified under the hand of the officer having the custody of the records of the court in which such conviction or acquittal was held, to be a copy of the sentence or order
2. In case of conviction, by a certificate signed by the officer in charge of the jail in which the punishment was undergone or by production of the warrant of commitment under which the punishment was suffered

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

70. Which of the following statements is/are correct?

1. A person tried by a court of competent jurisdiction for an offence shall not be liable to be tried again for the same offence irrespective of his conviction or acquittal.
2. A person tried by a court of competent jurisdiction for an offence shall not be liable to be tried again on the same facts for any other offence for which a different charge from the one made against him might have been made under Section 221(1) of the Code of Criminal Procedure, 1973 (CrPC) or for which he might have been convicted under Section 221(2), the CrPC.
3. The State Government may give consent for subsequent trial of any person for any distinct offence for which separate charge might have been made against him at the former trial under Section 220(1), the CrPC.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) 1 and 3 only

71. B, a public servant, is charged with an offence of receiving 'undue advantage' [Section 7, the Prevention of Corruption (PC) Act, 1988], making false documents [Section 464, the Indian Penal Code, 1860 (IPC)] and giving false evidence [Section 191, the IPC]. The sanctioning authority refused previous sanction for prosecution under Section 19 of the PC Act. The proceedings in a criminal court

- (a) can continue in respect of all the charges since the other offences do not require a previous sanction
- (b) cannot continue since Section 197, the Code of Criminal Procedure, 1973 (CrPC) states that no court can take cognizance of an act done by a public servant in discharge of his official duty
- (c) can continue but only in respect of the offences under the IPC
- (d) cannot continue although Section 197, the CrPC and Section 19, the PC Act are the same

72. In *Securities and Exchange Board of India v. Abhijit Rajan* (Civil Appeal No. 563 of 2020), the Supreme Court laid down which test(s) for determining whether an act of insider trading was committed or not?

- 1. There was an attempt to take advantage of the information available
- 2. There was an attempt to or encash benefit from the information he is in possession

3. The fact that he was in possession of unpublished price-sensitive information and he traded them

Select the correct answer using the code given below.

- (a) 1 only
- (b) 3 only
- (c) 2 and 3
- (d) 1 and 2

73. In which one among the following cases, the Supreme Court held that cumulative shareholding of the acquirer along with the shareholdings of persons acting in concert will have to be considered to determine whether the threshold limit prescribed under the SEBI (Substantial Acquisition of Shares and Takeovers) Regulations, 1997 has been breached?

- (a) *SEBI v. Sunil Krishna Khaitan and Others*, the Supreme Court judgment dated July 11, 2022
- (b) *MBL & Co. Ltd. v. SEBI*, the Supreme Court judgment dated May 26, 2022
- (c) *PTC India Financial Services Ltd. v. Venkateswarlu Kari*, the Supreme Court judgment dated May 12, 2022
- (d) *Balram Garg v. SEBI*, the Supreme Court judgment dated April 19, 2022

74. The Securities and Exchange Board of India (SEBI), in June 2023, has amended which one of the following Regulations in continuation of mandating the Business Responsibility and Sustainability Reporting in India?

- (a) The SEBI (Issue of Capital and Disclosure Requirements) Regulations, 2018
- (b) The SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015
- (c) The SEBI (Issue and Listing of Non-Convertible Securities) Regulations, 2021
- (d) The SEBI (Alternative Investment Funds) Regulations, 2012

75. Which of the following entities is/are mandated to redress investor's grievances failing which it would be liable to penalty prescribed under Section 15C of the Securities and Exchange Board of India (SEBI) Act, 1992?

1. Any listed company
2. Intermediaries
3. Depositories

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 1, 2 and 3
- (c) 2 only
- (d) 1 and 3 only

76. Which one of the following is **not** considered to be a default of stock-brokers under Section 15F of the Securities and Exchange Board of India (SEBI) Act, 1992?

- (a) Failure to issue contract notes as specified by the stock exchange of which the broker is a member
- (b) Failure to deliver any security in the manner and within the specified period as provided in the Regulations
- (c) Failure to comply with the investment adviser's roles as prescribed by the Regulations
- (d) Charges brokerage in excess of the amount specified in the Regulations

77. An Asset Reconstruction Company is registered under which one of the following Acts?

- (a) The Companies Act, 2013
- (b) The Banking Regulation Act, 1949
- (c) The Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002
- (d) The Reserve Bank of India Act, 1934

78. A mortgagor's right of redemption under the Transfer of Property Act, 1882 cannot be clogged and in order to sell the mortgaged property, court's intervention and appointment of receiver by the court are mandatory. This statement is

- (a) correct, irrespective of the kind of mortgage that the parties have executed
- (b) correct, but has created an exception for enforcement of security interest under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002
- (c) not correct, since there are different kinds of mortgages that have evolved
- (d) not correct, since the application against measures to recover secured debts under the SARFAESI Act, 2002 has to be presented before the court

79. The Central Register is kept under Section 22 of the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002 and is **not** maintained for entering into transactions relating to

- (a) enforcement of security interest
- (b) securitization of financial assets
- (c) reconstruction of financial assets
- (d) creation of security interest

80. Which one of the following is **not** a function of an Asset Reconstruction Company under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002?

- (a) Act as an agent for any bank for recovering their dues
- (b) Act as a receiver if appointed by any court or tribunal
- (c) Act as a manager of secured assets, the possession of which has been taken over by the secured creditor
- (d) Act as a manager even though such acting may give rise to pecuniary liabilities

81. The Supreme Court, in *Phoenix ARC Private Ltd. v. Vishwa Bharati Vidya Mandir* (Civil Appeal Nos. 257–259 of 2022), has held that a writ petition is not maintainable against an Asset Reconstruction Company (ARC) under which of the following grounds?

1. An ARC cannot be said to perform public functions.
2. The act of lending money by the bank/ARC is done during the course of a commercial transaction under a contract.
3. If the borrower is aggrieved by an action of the bank/ARC, he must avail the remedies under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

82. A borrower's right preserved in an auction sale held under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act, 2002 is preserved till

- (a) the completion of sale and delivery of possession of the secured asset
- (b) the date of publication of notice for public auction

(c) the transfer of secured asset in favour of the auction purchaser by registration of sale certificate

(d) the date of auction sale of the secured asset

83. The Central Government has power to issue directions to any authority for the exercise of powers and performance of the functions under the Prevention of Money Laundering Act, 2002 having regard to

1. territorial area
2. persons and cases
3. any other criteria specified by it

Which of the above criteria is/are **not** to be considered?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

84. Does the Prevention of Money Laundering Act, 2002 prescribe the following punishments for the offence of money laundering?

1. A person found guilty of the offence of money laundering is punishable with a minimum of three years' rigorous imprisonment.
2. Where the proceeds of the crime involved in money laundering relate to murder covered under Section 302 of the Indian Penal Code, 1860, the punishment may extend to seven years of imprisonment.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

85. Where any property or record is found in the possession of any person in the course of a search under the Prevention of Money Laundering Act, 2002, which of the following presumptions can be made?

1. The record or property belongs to such person.
2. The contents of such record are true.
3. The signature and every other part of the record purporting to be in the handwriting of any particular person are in that person's handwriting.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

86. The offences covered under which of the following Acts may be investigated under the National Investigation Agency Act, 2008?

1. The Atomic Energy Act, 1962
2. The Anti-Hijacking Act, 1982
3. The Weapons of Mass Destruction and their Delivery Systems (Prohibition of Unlawful Activities) Act, 2005

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

87. Which of the following statements with regard to the National Investigation Agency Act, 2008 is/are correct?

1. The Central Government can act *suo motu* by referring a case to the National Investigation Agency for investigation.
2. The Central Government is not bound to refer a case for investigation on the request of a State Government.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

88. Consider the following statements with regard to the National Investigation Agency Act, 2008 :

1. The National Investigation Agency while investigating a case cannot transfer that case to the State Government.
2. While investigating any scheduled offence, the National Investigation Agency has power to investigate any other offence also allegedly committed by the accused which is connected with the scheduled offence.

3. While investigating any scheduled offence, the National Investigation Agency has no power to investigate any other offence also allegedly committed by the accused which is connected with the scheduled offence.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3
- (d) 1 and 2

89. Which one of the following statements with regard to the National Investigation Agency Act, 2008 is **not** correct?

- (a) Any question relating to the jurisdiction of the Special Court has to be decided by the High Court.
- (b) The Special Court is presided over by a judge appointed by the Central Government on the recommendation of the Chief Justice of the High Court.
- (c) Only a Sessions or Additional Sessions Judge is qualified to be appointed as a judge of the Special Court.
- (d) The scheduled offences can be tried only by the Special Court.

90. Which one among the following pairs of Provisions and Sections of the National Investigation Agency Act, 2008 is correctly matched?

- (a) Protection of Witnesses : Section 17
- (b) Sanction for Prosecution : Section 20
- (c) Public Prosecutors : Section 21
- (d) Procedure and Powers of Special Courts : Section 22

91. Which one of the following statements regarding the partners under the Limited Liability Partnership (LLP) Act, 2008 is correct?

- (a) Partners act as mutual agents.
- (b) Partners act as agents of the limited liability partnership.
- (c) Only 'designated partners' act as agents of other partners and the limited liability partnership.
- (d) The relation of agency does not exist in limited liability partnership.

92. A person **cannot** become a partner in a limited liability partnership through which of the following modes?

- (a) By subscribing his name to the incorporation document
- (b) In accordance to the limited liability partnership agreement
- (c) By holding out
- (d) By enlisting his name with the Registrar for the said purpose

93. Which of the following statements in respect of liability in a Limited Liability Partnership (LLP) and its partners is/are correct?

1. The LLP is liable if the partner of an LLP is liable to any person as a result of any wrongful act or omission on his part in the course of the business of the LLP or with its authority.
2. An obligation of the LLP whether arising in contract or otherwise, shall be solely the obligation of the LLP.
3. A partner can be made liable to an unlimited extent in case any partner has acted with the intent to defraud the creditors.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 3 only

94. A compromise or arrangement in respect of a Limited Liability Partnership (LLP) can be proposed between an LLP and its

1. creditors
2. partners
3. suppliers

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 3 only
- (c) 1, 2 and 3
- (d) 2 only

95. 'Nidhi' has also been referred under the Companies Act, 2013 as

- (a) Beneficial Society
- (b) Mutual Fund Society
- (c) Mutual Benefit Society
- (d) Specific Benefit Society

96. Consider the following statements in respect of powers of the National Company Law Tribunal under the Companies Act, 2013 to enforce compromise or arrangement :

1. It can supervise the implementation of the compromise or arrangement.
2. It may give directions regarding modifications in the compromise or arrangement.
3. It may order winding-up of the company.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 only
- (d) 1, 2 and 3

97. Which one among the following statements is **not** correct?

Under the Companies Act, 2013, a foreign company having a place of business in India shall issue, circulate or distribute any prospectus offering for subscription in securities in India only after the said prospectus

- (a) is dated, signed and contains particulars with respect to the instrument constituting the constitution of the company
- (b) is certified by the chairperson and two other directors of the company and has been approved by the resolution of the managing body and delivered for registration to the Registrar
- (c) includes the date on which, and the country in which, the company would be or was incorporated
- (d) includes a statement of an expert and such expert has given a written or oral consent to the issue of the prospectus

98. Under the Companies Act, 2013, shares issued by a company at a discount shall be void unless such shares are

1. sweat equity shares of a class of shares already issued
2. issued to its creditors when its debt is converted into shares in pursuance of any statutory resolution plan
3. issued in pursuance of debt restructuring scheme in accordance with guidelines, directions or regulations specified by the Reserve Bank of India

Select the correct answer using the code given below.

- (a) 1, 2 and 3
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 3 only

99. Which one among the following is **not** a valid form of share capital under the Companies Act, 2013?

- (a) Equity share capital with voting rights
- (b) Preference share capital with differential rights as to voting
- (c) Equity share capital with differential rights as to dividend
- (d) Preference share capital

100. Which one of the following statements is **not** correct in respect of issue of shares on private placement basis?

- (a) A private placement shall be made only to select group of persons identified by the Board of Directors (Board) as 'identified persons'.
- (b) Every identified person willing to subscribe to private placement shall apply with subscription money.
- (c) The Board may decide to issue private placement by releasing public advertisements or utilizing the media to inform the public at large.
- (d) The company making the offer shall allot its securities within sixty days from the date of receipt of application money.

101. The minimum number of shareholders required to apply to the National Company Law Tribunal for prevention of oppression or mismanagement under Section 241 of the Companies Act, 2013 is

1. in a company having share capital, not less than one hundred members or 1/10th of the total number of members, whichever is less
2. in a company not having share capital, not less than 1/5th of the total number of its members
3. in a company that is listed with a recognized stock exchange, not less than 1/3rd of the total number of its members

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 1 only
- (c) 1, 2 and 3
- (d) 2 and 3 only

102. The constitutional validity of Section 327(7) of the Companies Act, 2013 vis-à-vis Section 53 of the Insolvency and Bankruptcy Code, 2016 was upheld by the Supreme Court in which one of the following cases?

- (a) *Moser Baer Karamchari Union v. Union of India*, the Supreme Court judgment dated May 2, 2023
- (b) *Sanjay Kumar Agarwal v. State Tax Officer*, the Supreme Court judgment dated October 31, 2023
- (c) *Vishal Chelani v. Debashis Nanda*, the Supreme Court judgment dated October 6, 2023
- (d) *Eva Agro Feeds Pvt. Ltd. v. Punjab National Bank*, the Supreme Court judgment dated September 6, 2023

103. A Corporate Insolvency Resolution Process (CIRP) **cannot** be initiated by which one among the following under the Insolvency and Bankruptcy Code, 2016?

- (a) Financial creditor
- (b) Operational creditor
- (c) A person who has supervision over financial affairs of corporate debtor
- (d) Corporate debtor in respect of whom liquidation order has been made

104. Which of the following is/are correct regarding 'operational debt' under the Insolvency and Bankruptcy Code, 2016?

1. A claim in respect of the provision of goods and services including employment
2. Debt in respect of dues payable to Central or State Government or any local authority
3. Money borrowed against the payment of interest

Select the correct answer using the code given below.

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) 2 and 3 only

105. Consider the following statements in respect of Committee of Creditors (CoC) under Section 21 of the Insolvency and Bankruptcy Code, 2016 :

1. The CoC shall comprise of all the financial creditors.
2. The CoC shall comprise of all the operational creditors.

3. Where the financial debt is represented by a guardian, such person shall act in the CoC as authorized representative on behalf of such financial creditors.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

106. With the declaration of a moratorium under Section 14 of the Insolvency and Bankruptcy Code, 2016, which one of the following **cannot** be prohibited?

- (a) Transferring or disposing of any of its assets or beneficial interest therein by the corporate debtor
- (b) Execution of any judgment, decree or order against the corporate debtor
- (c) Supply of essential goods or services to the corporate debtor
- (d) Recovery of any property by an owner where the said property is in possession of the corporate debtor

107. Which of the following statements is/are correct in respect of appointment of Interim Resolution Professional (IRP) under Section 16 of the Insolvency and Bankruptcy Code, 2016?

1. Where the application of a Corporate Insolvency Resolution Process (CIRP) is made by a financial creditor, the Resolution Professional (RP) proposed in the application shall be appointed as the IRP.
2. Where the application of CIRP is made by a corporate debtor in respect of whom liquidation order has been made, the IRP is to be appointed by the Insolvency and Bankruptcy Board of India on application of the corporate debtor.

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

108. The Resolution Professional is required under Section 29 of the Insolvency and Bankruptcy Code, 2016 to make relevant information available to the resolution applicant even if the applicant does not furnish which one of the following undertakings?

- (a) To comply with the provisions relating to confidentiality and insider trading
- (b) To protect the intellectual property of the corporate debtor

- (c) Not to share information related to disputes of the corporate debtor with third parties
- (d) To share the financial position of the corporate debtor with other parties

109. For an offence under Section 7 of the Prevention of Corruption Act, 1988, which of the following statements is/are correct?

1. In the absence of the complainant, it is permissible to draw an inferential deduction of culpability/guilt of a public servant based on other evidence adduced by the prosecution.
2. On proof that a public servant has attempted to obtain any undue advantage, there is nothing in Section 20 of the Act that could raise a presumption that illegal gratification was for a motive or reward.
3. The conduct of a public servant can be proved by circumstantial evidence in the absence of direct, oral and documentary evidence.

Select the correct answer using the code given below.

- (a) 2 and 3
- (b) 2 only
- (c) 1 only
- (d) 1 and 3

110. Which of the following in relation to a person, charged with an offence punishable under the Prevention of Corruption Act, 1988, to be a competent witness is/are correct?

1. Shall not be called as a witness except at his own request
2. Shall not be asked under any circumstance to show that he has committed any offence other than the one with which he is charged
3. May be asked about his bad character if he has given evidence against any other person charged with the same offence

Select the correct answer using the code given below.

- (a) 1 and 3
- (b) 1 only
- (c) 3 only
- (d) 1 and 2

111. A Special Judge appointed under Section 3 of the Prevention of Corruption (PC) Act, 1988 can try which of the following offences?

1. Any offence punishable under the PC Act, 1988
2. An attempt to commit an offence punishable under the PC Act, 1988
3. An abetment to commit an offence punishable under the PC Act, 1988

Select the correct answer using the code given below.

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 only

112. Section 6A of the Delhi Special Police Establishment Act, 1946 was held to be unconstitutional by the Supreme Court in which one of the following cases?

- (a) *Ritu Chhabaria v. Union of India* [Writ Petition (Criminal) No. 60 of 2023]
- (b) *Central Bureau of Investigation v. R. R. Kishore* [CRL Appeal No. 2763 of 2023]
- (c) *Soundarajan v. State Rep. by the Inspector of Police Vigilance Anti-corruption Dindigul* [Criminal Appeal No. 1592 of 2022]
- (d) *Common Cause (A Regd. Society) v. Union of India* [Writ Petition (Civil) No. 683 of 2014]

113. The Central Government is to appoint officers for the post of Superintendent of Police and above except Director under the Delhi Special Police Establishment (DSPE) Act, 1946 on the recommendation of a committee. Who among the following is **not** included in the committee?

- (a) The Vigilance Commissioner
- (b) The Secretary to the Government of India in charge of the Department of Personnel
- (c) The Secretary to the Government of India in charge of the Ministry of Home
- (d) The Chief Justice of India

114. Where any law provides that information shall be in writing, such requirement shall be deemed to have been satisfied if such information is

1. rendered or made available in any electronic form
2. accessible so as to be usable for a subsequent reference

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

115. Which one of the following statements is **not** correct with regard to the powers of the Controller of Certifying Authorities (Controller) under the Information Technology Act, 2000?

- (a) The Controller has power to suspend a licence issued to a person to issue Electronic Signature Certificate.
- (b) The Controller has power to suspend a licence for a week issued to a person to issue Electronic Signature Certificate without any notice to the licensee.
- (c) The suspension of a licence issued to a person to issue Electronic Signature Certificate by the Controller for a period of one month without any notice to the licensee is permissible.

(d) The revocation of a licence issued to a person to issue Electronic Signature Certificate by the Controller is permissible if an opportunity of hearing has been provided to the licensee to show cause against the proposed revocation.

116. Consider the following statements with regard to the Information Technology Act, 2000 :

1. A company cannot apply for grant of a licence to issue Digital Signature Certificate.
2. Every application for renewal of a licence granted for issue of Digital Signature Certificate must be made at least one month before the expiry of the period of validity of the licence.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

117. Appeals against the orders of the Controller of Certifying Authorities under the Information Technology Act, 2000 would lie before which of the following?

- (a) The National Company Law Tribunal
- (b) The National Company Law Appellate Tribunal
- (c) The Telecom Disputes Settlement and Appellate Tribunal
- (d) The High Court

- 118.** The constitutional validity of the Central Vigilance Commission (Amendment) Act, 2021 and the Delhi Special Police Establishment (Amendment) Act, 2021 was decided in which one among the following cases?
- (a) *Dr. Jaya Thakur v. Union of India*, the Supreme Court judgment dated July 11, 2023
- (b) *Vijay Rajmohan v. State Represented by the Inspector of Police, CBI, ACB, Chennai, Tamil Nadu*, the Supreme Court judgment dated October 11, 2022
- (c) *Jagtar Singh v. The State of Punjab*, the Supreme Court judgment dated March 23, 2023
- (d) *Neeraj Dutta v. State (Govt. of NCT of Delhi)*, the Supreme Court judgment dated March 17, 2023
- 119.** Which of the following is **not** a function of the Central Vigilance Commission (CVC) under Section 8 of the CVC Act, 2003?
- (a) Give directions excluding the directions to dispose any case in a particular manner to the Delhi Special Police Establishment (DSPE) for the purpose of discharging the responsibility under the DSPE Act, 1946
- (b) Tender advice to the State Government on such matters as may be referred to it by that government
- (c) Exercise superintendence over the vigilance administration of various Ministries of the Central Government
- (d) Inquire or investigate into any complaint against an official belonging to any government company controlled by the Central Government
- 120.** The Appointing Authority (AA) of the Department of Personnel and Training, while granting sanction for prosecuting a public servant X under Section 19 of the Prevention of Corruption (PC) Act, 1988 consulted the Central Vigilance Commission (CVC). X challenged the validity of the sanction on the ground that the AA acted as per dictation of the CVC. The said order is
- (a) valid, because there is no evidence that the CVC acted *mala fide*
- (b) not valid, since the power to sanction prosecution of a public officer is vested in the AA under the PC Act, 1988
- (c) valid, because the CVC is empowered to review the progress of applications pending for sanction of prosecution
- (d) not valid, because the CVC has no power to advise on such matters

T.B.C. : MHLF-U-MMD



Test Booklet Series

Serial

1001105

TEST BOOKLET



MINING, MECHANICAL AND
DRILLING ENGINEERING

Time Allowed : Two Hours

Maximum Marks : 300

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DO NOT write *anything else* on the Test Booklet.
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5. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
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9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers :**
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
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1. Economic progress and/or industrial status of any country is measured by
 - (a) volume of cast iron consumption
 - (b) volume of wrought iron consumption
 - (c) volume of copper consumption
 - (d) volume of steel consumption
2. The objective of a mine planning exercise is to plan a safe mine that maximises
 - (a) net future value of the project
 - (b) net present value of the project
 - (c) net ten-years value of the project
 - (d) net twenty-years value of the project
3. The optimum pit limit of an iron ore mine is determined by
 - (a) Minimum flow theory
 - (b) Maximum flow theory
 - (c) Average flow theory
 - (d) Root mean square flow theory
4. Cutting of marble is performed by
 - (a) Diamond wire saw cutting machine
 - (b) Power jet cutting machine
 - (c) Power hacksaw
 - (d) Variable-web cutting sequence
5. Radioactive waste material is produced from
 - (a) Thermal power plant
 - (b) Gas turbine power plant
 - (c) Hydro-power plant
 - (d) Nuclear power plant
6. In case of mines, power consumption is a function of
 - (a) Minimum demand, load factor, and maximum load time
 - (b) Maximum demand, load factor, and load time
 - (c) Estimated demand, minimum power factor, and maximum load time
 - (d) Average demand, maximum power factor, and average load time
7. The blast vibration's magnitude of rock is expressed with
 - (a) Numerated particle velocity
 - (b) Minimum particle velocity
 - (c) Average particle velocity
 - (d) Peak particle velocity
8. Zenith angle is measured with respect to
 - (a) the horizontal direction
 - (b) the vertical direction
 - (c) the horizontal plane
 - (d) the inclined plane
9. Mean height of ocean level is taken with data from
 - (a) Long tide gauges
 - (b) Coastal tide gauges
 - (c) Ocean level gauges
 - (d) Mechanical gauges
10. Height of tree is measured by
 - (a) Optical square
 - (b) Oblique meter
 - (c) Plant meter
 - (d) Clinometer

106. Consider the following statements regarding gemstones :

1. Brazilian sapphire is a transparent red variety that is sometimes cut as a gemstone.
2. Rubellite is a transparent Berlin blue variety which is commonly used as a gemstone.
3. Indicolite is an indigo-blue variety.

Which of the above statements is/are correct ?

- (a) 3 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

107. Consider the following statements regarding zones of hydrothermal wall-rock alteration, centred on the porphyry stock :

1. The argillic zone is characterized by quartz, sericite and pyrite.
2. The phyllic zone is characterized by clay minerals and with pyrite common.
3. The propylitic zone is characterized by chlorite, pyrite, calcite and epidote.

Which of the above statements is/are correct ?

- (a) 3 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

108. Consider the following statements regarding mining :

1. A 'vein' or 'lode' is a tabular body of mineral which has been formed subsequently to the rocks which enclose it.
2. The stratum immediately above a bed or seam which is being worked is usually known as the 'roof,' and the stratum lying underneath it is called the 'floor' or 'pavement'.
3. Like a bed, a vein has its dip and strike; but as the dip of the vein is generally great, it is often measured from the vertical, and is then spoken of as the under-lying, underlay, or hade.

Which of the above statements are correct ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

109. Which one of the following is the most important diamond district in the world ?

- (a) Kimberley
- (b) Alabama
- (c) Queensland
- (d) Arizona

110. The Sergeant drill has the peculiarity of having

- (a) Three valves
- (b) Four valves
- (c) Two valves
- (d) Five valves

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Test Booklet Series

Serial 1001169



TEST BOOKLET
GENERAL ABILITY TEST

Time Allowed : Two Hours

Maximum Marks : 300

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9. Consider the following statements :
- Statement-I :
If the variables are not linearly related but some sort of curvilinear relationship exists between them, then the correlation coefficient r will be misleading.
- Statement-II :
Correlation ratio η is the appropriate measure of curvilinear relationship between the two variables.
- Which one of the following is correct in respect of the above two statements ?
- Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I
 - Both Statement-I and Statement-II are correct but Statement-II is not the correct explanation for Statement-I
 - Statement-I is correct but Statement-II is incorrect
 - Statement-I is incorrect but Statement-II is correct

10. Consider the following statements :
- Usually demographic transition provides only a 35 – 45 year demographic window of opportunity with a higher share of population in the working age group. However, in the case of India, this period is likely to be only for 30 years.
 - India is experiencing an accelerating demographic transition.
- Which of the statements given above is/are correct ?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2

11. According to Neyman's allocation scheme in stratified sampling procedure, the sample size of the i^{th} stratum is proportional to :
- N_i
 - $N_i S_i$
 - $N_i S_i^2$
 - $N_i^2 S_i$
- where the symbols have their usual meaning.

12. The systematic sampling scheme and simple random sampling scheme give the estimate of equal precision if the value of intra class coefficient (ρ) between the units of a systematic sample is :
- $\frac{1}{N - n}$
 - $\frac{1}{1 - n}$
 - $\frac{1}{n - N}$
 - $\frac{1}{1 - N}$
- where the symbols have their usual meaning.

13. In SRSWOR, the finite population correlation factor is given by the expression :
- $\frac{N - 1}{N - n}$
 - $\frac{N - n}{N - 1}$
 - $\frac{n - 1}{N - n}$
 - $\frac{N - n}{n - 1}$
- where the symbols have their usual meaning.

21. Consider the following statements :
1. Mode can be found using Ogives.
 2. Mode can be found from histogram.
 3. Mean can be found using Ogives.
 4. Variance can be found using histogram.
- How many of the statements given above is/are **not** correct ?
- (a) Only one statement
 - (b) Only two statements
 - (c) Only three statements
 - (d) All four statements

22. Which of the following are correct about Crude Death Rate (CDR) ?
1. It can be used for population comparison over time only for stable populations.
 2. It is a probability rate.
 3. It gives the rate of population depletion over time.
 4. It takes account of differential mortality within the population.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

23. Which one of the following is correct regarding Infant Mortality Rate (IMR) ?
- (a) It is a probability rate
 - (b) It is computed from the Census data
 - (c) It excludes foetal deaths
 - (d) It is based on the total number of births reported in the same region (as the number of infant deaths) within the same calendar year

24. Which of the following are characteristic features of a stable population ?
1. Rate of overall change in the population is always zero.
 2. Population has a constant age-sex distribution.
 3. Population is closed to emigration or immigration.
 4. Population experiences same mortality and fertility at each age.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

25. Which of the following statements are correct about construction of Index numbers ?
1. The base year must be a normal year.
 2. The selection of commodities must be representative.
 3. The index number must be for all purposes.
 4. The index number must enable international comparison.

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2 only
- (c) 1, 2 and 3
- (d) 2, 3 and 4

26. Consider the following statements :
1. Ministry of Statistics and Programme Implementation collects economic data in India.
 2. Only five Economic Census have been conducted so far in India.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

35. For which of the following, the Census of India presents data regarding India's population ?

1. Ward level
2. Village level
3. Tehsil/Taluka level
4. Parliamentary / Legislative Assembly Constituency level

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

36. Which of the following subjects are covered in the Census of India ?

1. Population Tables
2. Social and Cultural Tables
3. Migration Tables
4. Tables on Other Backward Caste
5. Tables on Scheduled Caste/Scheduled Tribe

Select the correct answer using the code given below :

- (a) 1, 2 and 4
- (b) 2, 3, 4 and 5
- (c) 1, 3, 4 and 5
- (d) 1, 2, 3 and 5

37. Which of the following are "biomarkers" in National Family Health Survey (NFHS) ?

1. Weight
2. Height
3. Blood pressure
4. Name

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

38. Which one of the following is the correct definition of Maternal Mortality Rate (MMR) ?

- (a) Annual number of maternal deaths per 100 live births
- (b) Annual number of maternal deaths per 1000 live births
- (c) Annual number of maternal deaths per 10000 live births
- (d) Annual number of maternal deaths per 100000 live births

39. Consider the following indicators :

1. Child stunting
2. Child wasting
3. Child dropout
4. Child mortality

How many of the following is/are indicators in the compilation of Global Hunger Index (GHI) ?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

40. Consider the following statements :

1. Laspeyres index uses base period quantities as weights.
2. Paasche index uses current period quantities as weights.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

41. Which one of the following is a preferred indicator of inflation in India ?
- Household Price Index
 - Consumer Price Index
 - Wholesale Price Index
 - Weighted average of Consumer Price Index and Wholesale Price Index
42. Consider the following index numbers :
- Index number of Agricultural Production
 - Index number of Wholesale Prices
 - Index number of Foreign Trade
 - Index number of Service Sector
- How many of the index numbers given above is/are published by the Government of India ?
- Only one
 - Only two
 - Only three
 - All four
43. Which of the following about “Demographic Dividend” are correct ?
- It refers to the growth in an economy resulting from the change in the age structure of population.
 - The change in age structure is due to decline in both the fertility and mortality rates.
 - Fewer births imply, the number of young dependents grows smaller relative to the working population, which boosts productivity.
 - The benefits from demographic dividend are automatic and guaranteed in the future.
- Select the correct answer using the code given below :
- 1, 2, 3 and 4
 - 2 and 4 only
 - 1 and 3 only
 - 1, 2 and 3 only
44. Which one of the following terms best denotes the average number of children that would be born to a woman in a country if she experiences the current fertility pattern in that country throughout her child-bearing years (15 – 49 years) ?
- Crude Birth Rate
 - Gross Reproduction Rate
 - Net Reproduction Rate
 - Total Fertility Rate
45. Which of the following statements are correct ?
- Population Surveys are included in List-II (State List) of the Constitution.
 - Census, inquiries, surveys and statistics are included in List-I (Union List).
 - Vital statistics including registration of births and deaths and some inquiries and statistics are included in List-III (Concurrent List).
 - The Collection of Statistics Act, 2008 facilitates the collection of statistics on demographic aspects as well.
- Select the correct answer using the code given below :
- 1 and 4 only
 - 2 and 3 only
 - 2, 3 and 4 only
 - 1, 2, 3 and 4

46. Which of the following statements regarding population ageing in India are correct ?

1. Older people are a valuable resource for the Indian society.
2. Ageing is a natural phenomenon with opportunities and challenges.
3. According to Census 2011, the number of 60+ years population is more than 100 million.
4. Among the number of 60+ years persons, females outnumber males.

Select the correct answer using the code given below :

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1 and 4 only
- (d) 1, 2, 3 and 4

47. Which of the following statements regarding population ageing are correct ?

1. Population ageing refers to an increasing median age in a population due to rising life expectancy and declining fertility rates.
2. The United Nations agreed cut off is 60+ years to refer to the older/elderly population, whereas some countries have accepted the chronological age of 65 years as a definition of elderly or older person.
3. Population ageing is poised to become one of the most significant social transformations of the twenty-first century.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

48. Which one of the following compiles the Index of Industrial Production ?

- (a) Central Statistical Office
- (b) Department for Promotion of Industry and Internal Trade
- (c) Department of Economic Affairs
- (d) Reserve Bank of India

49. Which of the following statements about Population Census in India are correct ?

1. The first complete Population Census was conducted in 1881 on a uniform basis throughout the country.
2. According to Census Act 1948, the Census must be conducted after every 10 years compulsorily.
3. The Socio-Economic Caste Census (SECC) was conducted in 2011 in addition to the Population Census of 2011.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

50. Which of the following statements about sampling error are correct ?

1. The probability of Type-I error is called alpha and the probability of Type-II error is called beta.
2. In a Type-I error, the Null Hypothesis should be accepted.
3. Generally reducing the possibility of committing a Type-I error increases the possibility of committing a Type-II error.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

51. What are the sources of error in a survey that need to be controlled ?

1. Sampling error
2. Researcher bias
3. Problems with reliability and validity
4. Oversight and other mistakes

Select the correct answer using the code given below :

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1 and 4 only
- (d) 1, 2, 3 and 4

52. Which of the following are the objectives of National Population Policy, 2000 ?

1. Address the unmet needs for contraception, health care infrastructure, and personal health care
2. Provide integrated service delivery for basic reproductive and child health care
3. Bring TFR to replacement levels by 2010 and achieve stable population by 2045
4. Surpass China to be the world's largest democracy by 2024

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

53. Consider the following statements :

1. RBI can achieve monetary tightening by reducing the repo rate.
2. RBI can reduce liquidity in the economy by reducing the cash-reserve ratio.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

54. Which of the following levied by the Central Government on petrol and diesel are non-shareable with the States ?

1. Basic excise duty
2. Additional excise duty
3. Special additional excise duty

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

55. Consider the following :

1. Petroleum products
2. Alcoholic liquor for human consumption
3. Tobacco and tobacco products

How many of the above are currently being taxed under the GST regime ?

- (a) None
- (b) Only one
- (c) Only two
- (d) All three

56. Which of the following are the features of GST ?

1. It is an origin-based tax.
2. It is a destination-based tax.
3. It is a consumption tax.
4. It is a value added tax.

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

57. Consider the following statements :

1. The Fifteenth Finance Commission introduced a new parameter of demographic performance as a criterion for horizontal sharing.
2. The Fifteenth Finance Commission used the need-based criterion like income-distance in determining horizontal sharing.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

58. The impact of population age structure on economic growth of GDP per capita can be captured by analyzing which of the following factors ?

1. Proportion of working age population in the total population
2. Work Participation Rate
3. Per-capita productivity

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

59. Which of the following are indicators of debt vulnerability of a country ?

1. GDP
2. Total Debt/GDP
3. Short-term Debt to Total Debt Ratio
4. Level of Foreign Exchange Reserves

Select the correct answer using the code given below :

- (a) 1, 2 and 4
- (b) 1, 2 and 3
- (c) 2, 3 and 4
- (d) 1, 3 and 4

60. The salary of an employee is ₹ 10,000. After four successive equal percentage rises in salary in four consecutive years, his salary becomes ₹ 14,641. What is the percentage rise in the salary in each year ?

- (a) 8%
- (b) 9%
- (c) 10%
- (d) 11%

81. If standard error of a set of 100 observations was found to be 0.04, then what is the population variance of data set ?

- (a) 1.04
- (b) 0.4
- (c) 0.24
- (d) 0.16

82. A sample of size 20 was taken from a population of size 101 with variance 5. What is the standard error of sample mean ?

- (a) 0.5
- (b) 0.45
- (c) 0.19
- (d) 0.16

83. Consider the following statements :

1. Wholesale Price Index can measure the cost of living.
2. Index of Industrial Production can measure productivity.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

84. Which of the following do *not* need current year quantity as weights for construction of index numbers ?

1. Laspeyres method
2. Drobish-Bowley method
3. Fisher's method

Select the correct answer using the code given below :

- (a) 1 only
- (b) 1 and 2
- (c) 1 and 3
- (d) 2 and 3

85. Which of the following index numbers are based on the principle of geometric mean ?

- (a) Kelly's Index number
- (b) Fisher's Index number
- (c) Drobish-Bowley Index number
- (d) Marshall-Edgeworth Index number

86. What is the average of all prime numbers that lie between 100 and 120 ?

- (a) 104.0
- (b) 106.6
- (c) 108.4
- (d) 105.8

87. If σ_x and σ_y are the standard deviations of two correlated random variables X and Y, and $w = \frac{\sigma_x}{\sigma_y} + \frac{\sigma_y}{\sigma_x} + 1$, then what is the minimum value of w ?

- (a) 1
- (b) 2
- (c) 3
- (d) 16

88. If $r = \sqrt{2}/3$ is simple correlation between two variables X and Y, then standard error in estimating Y for given X when $\text{Var}(Y) = 7$ is :

- (a) $5/3$
- (b) $\sqrt{7}/3$
- (c) $7/3$
- (d) $3/7$

89. In a frequency distribution with coefficient of variation 10, Karl Pearson's coefficient of skewness 0.05 and standard deviation 2; the value of sum of mean and mode is :

- (a) 39.9
- (b) 39
- (c) 29.9
- (d) 21

90. For the same data Laspeyre's and Paasche's index numbers are 107.12 and 127.51 respectively. Which one of the following can be Fisher's ideal index for the same data set ?

- (a) 101.12
- (b) 121.27
- (c) 129.52
- (d) 181.71

91. Which of the following malicious software replicate themselves through infection ?

- 1. Worms
- 2. Trojan Horse
- 3. Virus
- 4. Rootkit

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

92. In Internet the URL (Uniform Resource Locator) is used to :

- (a) fetch web address
- (b) find hypertext documents
- (c) perform instant messaging
- (d) find address of the search engine

93. Utility software is a small program that provides additional capabilities to the operating system. Which of the following are utility software ?

- 1. System profiler
- 2. Debugger
- 3. Backup
- 4. Virus scanner

Select the correct answer using the code given below :

- (a) 1, 2 and 3
- (b) 1, 2 and 4
- (c) 1, 3 and 4
- (d) 2, 3 and 4

101. Which one of the following metals is extracted from monazite sand found in plenty in India ?

- (a) Gold
- (b) Thorium
- (c) Uranium
- (d) Copper

102. The Amarkantak Hills is the source of two rivers flowing in two different directions. They are :

- (a) Betwa and Tapi
- (b) Narmada and Son
- (c) Narmada and Mahanadi
- (d) Tapi and Son

103. Consider the following pairs :

Reservoir *State*

- 1. Ghataprabha Telangana
- 2. Gandhi Sagar Madhya Pradesh
- 3. Indira Sagar Andhra Pradesh
- 4. Maithon Chhattisgarh

How many of the pairs given above is/are correctly matched ?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

104. "The trees have specially adapted aerial and salt-filtering roots; and their seeds germinate in fruits while still attached to parent plants."

These trees are most abundantly found in :

- (a) Mangrove forests
- (b) Thorn and scrub forests
- (c) Tropical deciduous forests
- (d) Tropical rain forests

105. Consider the following pairs :

- 1. Nokrek Biosphere ... Garo Hills
- 2. Loktak Lake Barail Range
- 3. Namdapha National Park Dafla Hills

How many of the pairs given above is/are correctly matched ?

- (a) None of the pairs
- (b) Only one pair
- (c) Only two pairs
- (d) All three pairs

106. Which of the following features is the most approximate characterization of India's political system ?

- (a) Parliamentary-Federal
- (b) Presidential-Federal
- (c) Parliamentary-Unitary
- (d) Presidential-Unitary

107. Which among the following fundamental rights is/are available to aliens along with citizens of India ?

- 1. Right to freedom of speech and expression
- 2. Right to equality before law
- 3. Cultural and educational rights

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) 2 and 3
- (d) 1 and 3

108. With reference to the International Court of Justice, which of the following is/are correct ?

1. It has compulsory jurisdiction all over the world
2. It is a major organ of the United Nations

Select the correct answer using the code given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

109. Which one among the following parts of the Constitution of India embodies the concept of Panchayati Raj System ?

- (a) Preamble
- (b) Fundamental Duties
- (c) Directive Principles of State Policy
- (d) First Schedule

110. Article 1 of the Indian Constitution describes India as a :

- (a) Federation
- (b) Confederation
- (c) Union of States
- (d) Unitary State

111. What are the “White Label Automated Teller Machines” ?

- (a) Those owned and operated by Scheduled Commercial Banks
- (b) Those owned and operated by private non-banking firms
- (c) Those set up and operated in remote and not so easily accessible areas
- (d) Small and lightweight ATMs which can be carried and operated by Banking Correspondents

112. With the increase in the bank rate by the RBI :

- (a) credit will become cheaper
- (b) the terms of credit will remain unaffected
- (c) credit will become costlier
- (d) the terms of inter-bank credit will become cheaper

113. In India, which one of the following is responsible for price stability ?

- (a) Department of Consumer Affairs
- (b) Expenditure Management Commission
- (c) Financial Stability and Development Council
- (d) Reserve Bank of India

114. Incremental capital-output ratio is a measure of which of the following ?

- (a) Economic growth of the economy
- (b) Aggregate capital intensity of production
- (c) Productivity of the economy
- (d) Export-competitiveness of the economy

115. In the context of economy, the term “capital goods” refers to :

- (a) any asset
- (b) any durable good that is owned for pleasure or income
- (c) any durable or non-durable good that helps to increase the productivity of labour
- (d) any commodity which is used to produce goods and services including itself

116. Parliament has recently passed the Registration of Births and Deaths (Amendment) Bill, 2023. Consider the following statements in respect of the Bill :

1. The Bill makes it obligatory for States to register births and deaths on the Central Civil Registration System (CRS) portal and to share the data with the Registrar General of India, which functions under the Union Home Ministry.
2. The Bill introduces the concept of digital birth certificates and intends to serve as a comprehensive document for multiple purposes.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

117. The Union Ministry of Jal Shakti recently released the findings of India's first Water Bodies Census, which provides a comprehensive database of ponds, tanks, lakes and reservoirs in the country. Which of the following are the key findings ?

1. More than 24 lakh water bodies have been enumerated.
2. Among the different types of water bodies, reservoirs constitute the majority.
3. West Bengal has the highest number of ponds and reservoirs.

Select the correct answer using the code given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

118. The first Methane-fuelled space rocket was launched by :

- (a) India
- (b) China
- (c) Russia
- (d) The United States of America

119. Consider the following pairs in respect of the 69th National Film Awards :

1. Best Feature Film Rocketry : The Nambi Effect
2. Best Hindi Film Sardar Udham
3. Best Actor Allu Arjun

Which of the above pairs are correctly matched ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

120. Consider the following statements in respect of Chandrayaan :

1. Landing site of Chandrayaan-3 on the lunar south pole is named as "Shiv Shakti Point".
2. Crash site of Chandrayaan-2 is named as "Tiranga Point".
3. Lander (Vikram) is a six-legged vehicle while Rover (Pragyan) is a four-legged vehicle.

Which of the statements given above are correct ?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Combined R.T. (RT.-II), 2024

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

टी. बी. सी. : PAMD-B-GAT



परीक्षण पुस्तिका अनुक्रम

क्रम संख्या

1006189

परीक्षण पुस्तिका
सामान्य योग्यता परीक्षण



समय : दो घण्टे

पूर्णांक : 300

अनुदेश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस परीक्षण पुस्तिका की पड़ताल अवश्य कर लें कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो इसे सही परीक्षण पुस्तिका से बदल लें।
2. कृपया ध्यान रखें कि OMR उत्तर-पत्रक में, उचित स्थान पर, रोल नम्बर और परीक्षण पुस्तिका अनुक्रम A, B, C या D को, ध्यान से एवं बिना किसी चूक या विसंगति के भरने और कूटबद्ध करने की जिम्मेदारी उम्मीदवार की है। किसी भी प्रकार की चूक/विसंगति की स्थिति में उत्तर-पत्रक निरस्त कर दिया जाएगा।
3. इस परीक्षण पुस्तिका पर साथ में दिए गए कोष्ठक में आपको अपना अनुक्रमांक लिखना है। परीक्षण पुस्तिका पर **और कुछ न** लिखें।
4. इस परीक्षण पुस्तिका में 120 प्रश्नांश (प्रश्न) दो भागों में दिए गए हैं : भाग - A और भाग - B। भाग - B में प्रत्येक प्रश्नांश हिन्दी और अंग्रेज़ी दोनों में छपा है। प्रत्येक प्रश्नांश में चार प्रत्युत्तर (उत्तर) दिए गए हैं। इनमें से एक प्रत्युत्तर को चुन लें, जिसे आप उत्तर-पत्रक पर अंकित करना चाहते हैं। यदि आपको ऐसा लगे कि एक से अधिक प्रत्युत्तर सही हैं, तो उस प्रत्युत्तर को अंकित करें जो आपको सर्वोत्तम लगे। प्रत्येक प्रश्नांश के लिए **केवल एक ही** प्रत्युत्तर चुनना है।
5. आपको अपने सभी प्रत्युत्तर अलग से दिए गए उत्तर-पत्रक पर ही अंकित करने हैं। उत्तर-पत्रक में दिए गए निर्देश देखें।
6. सभी प्रश्नांशों के अंक समान हैं।
7. इससे पहले कि आप परीक्षण पुस्तिका के विभिन्न प्रश्नांशों के प्रत्युत्तर उत्तर-पत्रक पर अंकित करना शुरू करें, आपको प्रवेश प्रमाण-पत्र के साथ प्रेषित अनुदेशों के अनुसार कुछ विवरण उत्तर-पत्रक में देने हैं।
8. आप अपने सभी प्रत्युत्तरों को उत्तर-पत्रक में भरने के बाद तथा परीक्षा के समापन पर **केवल उत्तर-पत्रक** अधीक्षक को सौंप दें। आपको अपने साथ परीक्षण पुस्तिका ले जाने की अनुमति है।
9. कच्चे काम के लिए पत्रक, परीक्षण पुस्तिका के अंत में संलग्न हैं।
10. ग़लत उत्तरों के लिए दंड :
वस्तुनिष्ठ प्रश्न-पत्रों में उम्मीदवार द्वारा दिए गए ग़लत उत्तरों के लिए दंड दिया जाएगा।
 - (i) प्रत्येक प्रश्न के लिए चार वैकल्पिक उत्तर हैं। उम्मीदवार द्वारा प्रत्येक प्रश्न के लिए दिए गए एक ग़लत उत्तर के लिए प्रश्न हेतु नियत किए गए अंकों का एक-तिहाई दंड के रूप में काटा जाएगा।
 - (ii) यदि कोई उम्मीदवार एक से अधिक उत्तर देता है, तो इसे ग़लत उत्तर माना जाएगा, यद्यपि दिए गए उत्तरों में से एक उत्तर सही होता है, फिर भी उस प्रश्न के लिए उपर्युक्तानुसार ही, उसी तरह का दंड दिया जाएगा।
 - (iii) यदि उम्मीदवार द्वारा कोई प्रश्न हल नहीं किया जाता है, अर्थात् उम्मीदवार द्वारा उत्तर नहीं दिया जाता है, तो उस प्रश्न के लिए कोई दंड नहीं दिया जाएगा।

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें

Note : English version of the instructions is printed on the back cover of this Booklet.

PAMD-B-GAT

(1 - A)

25. Which of the following statements regarding the objective of the RTI Act, 2005 are correct ?

1. To set up a system and a mechanism that facilitate people's ease of access to information.
2. To promote transparency and accountability in governance.
3. To minimise corruption and inefficiency in public offices and ensure people's participation in governance and decision-making.
4. To operationalise the fundamental right to information.

Select the correct answer using the codes given below :

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 2, 3 and 4
- (d) 1 and 4 only

26. Which one of the following information about the Right to Information Act, 2005, is **not** correct ?

- (a) No court shall entertain any suit, application or other proceedings in respect of any order made under this Act and no such order shall be called in question other than by way of an appeal under this Act.
- (b) No suit, prosecution or other legal proceeding shall lie against any person for anything which is in good faith done or intended to be done under this Act or any rule made thereunder.
- (c) Information pertaining to the allegations of corruption and human rights violations shall be excluded from disclosure under Section 24 (1).
- (d) Record includes any document, manuscript and file, microfilm, microfiche and facsimile copy of a document, any reproduction of image or images embodied in such microfilm or any other material produced by a computer or any other device.

27. Which of the following organisations established by the Central Government, comes under the ambit of the Right to Information Act, 2005 ?

1. Narcotics Control Bureau
2. Directorate of Enforcement
3. Research and Analysis Wing of the Cabinet Secretariat
4. Directorate of Revenue Intelligence

Select the correct answer from the codes given below :

- (a) All of the above
- (b) None of the above
- (c) 1 and 2 only
- (d) 1, 2 and 4 only

28. Which of the following comes under the definition of 'Information' under the Right to Information Act, 2005 ?

1. Records and circulars
2. E-mails, press releases and logbooks
3. Contracts, reports, samples and models
4. Data material held in any electronic form

Select the correct answer using the codes given below :

- (a) None of the above
- (b) 1, 2 and 3 only
- (c) 2 and 3 only
- (d) 1, 2, 3 and 4

29. If the legislation constituting a Public Sector Undertaking does **not** allow access to a certain piece of general information, what shall be the procedure according to the Right to Information Act, 2005 ?

1. Right to Information Act, 2005 will override any such law
2. Right to Information Act, 2005 cannot override such law
3. Public Information Officer designated is bound to provide such information unless it falls under Section 8 of Right to Information Act, 2005
4. Public Information Officer designated is not bound to provide any information relating to Public Sector undertaking

Select the correct answer using the codes given below :

- (a) 1 only
- (b) 2 and 3
- (c) 1 and 3
- (d) 2 and 4

30. The salaries and allowances payable to, and other terms and conditions of service, of the Chief Information Commissioner are the same as that of :

- (a) Judge of the Supreme Court of India
- (b) Attorney General of India
- (c) Comptroller and Auditor General of India
- (d) None of the above

31. Which one of the following concepts is related to the process of generating a large pool of qualified applicants ?

- (a) Selection
- (b) Placement
- (c) Deployment
- (d) Recruitment

32. Which one of the following tests measures the level of extraversion/introversion, emotional stability, agreeableness, conscientiousness, and openness to experience of the applicants for a particular job in which she or he will be appointed ?

- (a) Aptitude test
- (b) Intelligence test
- (c) Attainment test
- (d) Personality test

33. Which one of the following is an important tool for keeping the selector's attention on the list of necessary qualifications and assisting in determining whether candidates are essentially qualified ?

- (a) Job enlargement
- (b) Job enrichment
- (c) Job evaluation
- (d) Job specification

34. Which one of the following is the process of acquiring better skills for the current job of the employees ?

- (a) Training
- (b) Development
- (c) Motivation
- (d) Leadership

41. A no-questions-asked return policy offered to consumers by many online retailers can be termed as :
- Distributive fairness
 - Procedural fairness
 - Informational fairness
 - Interactional fairness
42. Which one of the following pricing strategies does Apple use for its iPhones ?
- Leader Pricing
 - Price Lining
 - Market Penetration Pricing
 - Price Skimming
43. If Levi's wants to get potential customers to stop buying jeans from Lee and Wrangler, it would use which type of advertising ?
- Informative
 - Reminder
 - Persuasive
 - Pull
44. Standardised products and commodities such as grains or chemical products are characteristics of which competitive market form ?
- Monopoly
 - Pure competition
 - Oligopoly
 - Monopolistic competition
45. Which one of the following taglines would you associate with Bharti Airtel ?
- Express Yourself*
 - Think Different*
 - Together We Can*
 - Connecting People*
46. The method through which ideas for a new product or service are generally gathered using social media platforms is known as :
- Crowdfunding
 - Crowdsourcing
 - Crowd effect
 - Crowd voting
47. What is the most common way to measure the size and market potential of an economy ?
- Trade Surplus
 - Gross National Income
 - Purchasing Power Parity
 - Gross Domestic Product
48. Companies such as Canon or Epson offer main products (printers) at low profit margins and set high mark ups on supplies. Which pricing tactics are these companies using ?
- Bundle pricing
 - Product-line pricing
 - Captive-product pricing
 - Psychological pricing

49. 'Jago Re' campaign run by Tata Tea to encourage people to exercise their voting rights is an example of :
- Societal marketing
 - Social marketing
 - Influencer marketing
 - Sustainable marketing
50. The products which have low immediate appeal but are beneficial in the long-run for the consumers, such as bicycle helmets, are known as :
- Deficient products
 - Desirable products
 - Salutary products
 - Pleasing products
51. Which of the following is **not** a fundamental accounting assumption in the preparation of financial statements ?
- Going concern
 - Consistency
 - Accrual
 - Matching concept
52. The golden rule of current assets valuation – 'Cost or Market price whichever is lower' – is based on the principle of :
- Conservatism
 - Money measurement
 - Accrual
 - Consistency
53. Overhauling expenses of ₹ 50,000 spent on the engine of a motor car to get better fuel efficiency is classified as :
- Revenue expenditure
 - Capital expenditure
 - Prepaid revenue expenditure
 - Deferred revenue expenditure
54. Which one of the following statements in relation to a Cash Book is **not** correct ?
- The Cash Book is both a subsidiary book and a principal book.
 - All the columns of a three-column cash book are balanced at the end of the accounting period.
 - Contra entries do not require further posting to the ledger accounts.
 - The total of debit side is always greater than the total of credit side of the cash column but not necessarily for bank column of the cash book.

55. A credit purchase of machinery recorded in purchases book instead of journal proper is an :
- (a) Error of partial omission
 - (b) Error of commission
 - (c) Error of principle
 - (d) Error affecting the agreement of trial balance
56. Which of the following is **not** a personal account ?
- (a) Rent outstanding
 - (b) Drawings
 - (c) Bank fixed deposit
 - (d) Bad debts recovered
57. The most important objective of financial management is :
- (a) Profit maximisation
 - (b) Wealth maximisation
 - (c) Attaining a higher growth rate
 - (d) Effective utilisation of funds
58. Which of the following ratios is **not** used to measure the ability of the business to pay its short-term liabilities ?
- (a) Current ratio
 - (b) Quick ratio
 - (c) Absolute liquidity ratio
 - (d) Debt-equity ratio
59. Which one of the following best defines the cost of capital ?
- (a) The interest rate on long-term debt
 - (b) The rate of return expected by suppliers of funds to compensate for the opportunity cost and risk of an investment
 - (c) The cost of issuing new equity shares
 - (d) The cost of short-term borrowings
60. Which one of the following statements about Degree of Financial Leverage (DFL) is correct ?
- (a) It measures the impact of percentage change in Earnings Per Share (EPS) to the percentage change in Earnings Before Interest and Taxes (EBIT).
 - (b) It measures the impact of percentage change in Earnings Before Interest and Taxes (EBIT) to the percentage change in sales.
 - (c) It measures the impact of percentage change in Earnings Per Share (EPS) to the percentage change in sales.
 - (d) It is also used as an indicator of business risk.

61. The Komagata Maru incident of 1914 was about Indian immigration to :

- (a) Canada
- (b) Japan
- (c) United States of America
- (d) Fiji

62. The Passive Resistance Association was formed by Gandhiji to campaign against the :

- (a) Certificates of Registration imposed compulsorily on Indians in South Africa
- (b) Tinkathia imposition on the peasants in Champaran
- (c) Increased taxation on Kheda peasants
- (d) Oppressive measures against Ahmedabad mill workers

63. The Rowlatt Bills were about :

- (a) Imposing the requirement of compulsory registration of Indian marriages
- (b) Restricting the promotional opportunities for Indians in administrative services
- (c) Giving the Executive extensive powers to arrest and detain persons without trial
- (d) Restructuring of the Indian education system

64. Consider the following statements about the Non-Cooperation Movement of 1920 :

- 1. It included the surrender of titles and honours.
- 2. Hand-spinning and weaving were to be encouraged.
- 3. Untouchability was to be given up.
- 4. Panchayats were to be established for settling disputes.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 and 4 only
- (c) 2 and 3 only
- (d) 1, 2, 3 and 4

65. Who among the following revolutionaries were tried and hanged for the Kakori Case ?

- (a) Bejoy Kumar Sinha, Shiv Verma, Jaidev Kapur
- (b) Bhagat Singh, Sukhdev, Bhagwati Charan Vohra
- (c) Jogesh Chatterjea, Sachindranath Sanyal, Chandrashekhar Azad
- (d) Ashfaqulla Khan, Ramprasad Bismil, Rajendra Nath Lahiri, Roshan Singh

66. Consider the following statements about the Constitution of India :

- 1. Parliamentary democracy and social and economic justice are some of its essential principles.
- 2. It makes India a Republic.
- 3. It professes freedom of conscience.
- 4. It gives the right to choose a profession.

How many of the above statements is/are correct ?

- (a) One
- (b) Two
- (c) Three
- (d) Four

67. Who among the following was the first Finance Minister of independent India ?

- (a) Vallabhbhai Patel
- (b) Jawaharlal Nehru
- (c) Shanmukham Chetty
- (d) John Mathai

68. Who among the following groups were appointed members of the States Reorganisation Commission in August 1953 ?

- (a) Justice S.K. Dhar, Pattabhi Sitaramayya and Sarojini Naidu
- (b) Lal Bahadur Shastri, C. Subramaniam and Purushottam Das Tandon
- (c) Justice Fazl Ali, K.M. Panikkar and Hridaynath Kunzru
- (d) Ram Manohar Lohia, Professor Suniti Kumar Chatterjee and Seth Govind Das

69. Consider the following statements about the development of science and technology in independent India :

- 1. The Atomic Energy Commission, with Homi J. Bhabha as Chairman, was set up in August 1948.
- 2. The nuclear reactor at Trombay, Mumbai, is India's largest nuclear power station.
- 3. The Indian National Committee for Space Research (INCOSPAR) was set up in 1962.
- 4. The Satish Dhawan Space Centre is situated in Thumba.

How many of the above statements is/are correct ?

- (a) One
- (b) Two
- (c) Three
- (d) Four

70. Consider the following statements :

- 1. The Battle of Saraighat was fought between the Mughal Empire and the Ahom Kingdom.
- 2. Lachit Borphukan Gold Medal is given to the best cadet at the National Defence Academy since 1999.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

71. Consider the following statements about the National Child Labour Project scheme under the Government of India :

- 1. Under this scheme, children in the age group of 9 – 14 years are first withdrawn from work; they are then given requisite vocational training; they are finally given appropriate jobs by the Government.
- 2. This scheme is applicable to the age group of 5 – 8 years only.

Which of the statements given above is/are correct ?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

72. Which of the following statements is/are **not** correct about “Unnati” ?

1. It is a technology platform to enable livelihood access for the blue-collar and white-collar workers in India.
2. It uses Artificial Intelligence to match job providers with job seekers.

Select the answer using the codes given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

73. Which one of the following statements about ‘WISE-KIRAN’ scheme of the Government of India is correct ?

- (a) It selects 100 women researchers pursuing higher education every year through a three-tier selection process for empowering women in rural areas.
- (b) It is a select group of women volunteers to raise consciousness among rural women about government programmes and schemes empowering women.
- (c) It is a flagship programme which provides opportunities to women scientists to pursue research careers in Science and Technology.
- (d) It is a flagship programme of women empowerment in extremist affected areas.

74. Which one among the following statements about National Institute of Rural Development and Panchayati Raj is **not** correct ?

- (a) It is an autonomous organisation under the Ministry of Rural Development, Government of India.
- (b) It is a UN-ESCAP Centre of Excellence.
- (c) It is a capacity building centre for the rural functionaries.
- (d) This institute is located in the State of Andhra Pradesh.

75. Which of the following statements is **not** correct about Human Development Index (HDI) released by the United Nations Development Programme ?

1. HDI makes a rating of countries on a scale of 0 to 1.
2. It measures relative, and not absolute levels of human development.

Select the answer using the codes given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

76. Who, amongst the following, coined the term ‘POSDCORB’ ?

- (a) Mary Parker Follett
- (b) Henri Fayol
- (c) Gulick and Urwick
- (d) Herbert A. Simon

77. Which of the following statements about Eklavya Model Residential Schools (EMRS) is/are correct ?

1. They were initiated by the Government of India in 2014 to empower tribal students.
2. The Government of India has decided to open EMRS in every Block of India.

Select the answer using the codes given below :

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

78. Which of the following statements is/are correct about the legal empowerment of the masses in India ?

1. Tele-Law, Nyaya Bandhu and Nyaya Mitra are key programmes initiated by the Government of India towards this endeavour.
2. DISHA is a scheme initiated by the Government of India for making justice accessible.
3. The Government of India has launched a Tele-Law mobile app available in all 22 scheduled languages.

Select the answer using the codes given below :

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 1 only

79. UNDP prepares Gender Social Norms Index (GSNI) by quantifying biases against women, capturing people's attitudes on women's role along four key dimensions. Which of the following is **not** included in the four key dimensions ?

- (a) Educational dimension
- (b) Economic dimension
- (c) Political dimension
- (d) Cultural dimension

80. Which one of the following statements about Pradhan Mantri Ujjwala Yojana (PMUY) is **not** correct ?

- (a) Under PMUY, a deposit-free LPG connection is provided to adult women from poor households.
- (b) PMUY was launched in the year 2019.
- (c) No State/ UT wise allocation of funds is done under PMUY.
- (d) The objective of PMUY is to provide clean cooking fuel to poor households across the country.

81. The Shooonya Campaign under NITI Aayog is about :
- (a) Reducing poverty to zero level
 - (b) Curbing inflation of food items
 - (c) Improving air quality
 - (d) Reducing rural unemployment
82. Which one of the following is India's first Regional Rapid Transit System (RRTS) corridor ?
- (a) Delhi-Ghaziabad-Meerut
 - (b) Delhi-Bahadurgarh-Rohtak
 - (c) Delhi-Sonipat-Panipat
 - (d) Delhi-Gurugram-Rewari-Alwar
83. Which one among the following statements is correct about "*Paschim Lehar*" ?
- (a) It is a famous novel, for which Nilamani Phukan was awarded with Jnanpith Award.
 - (b) It is a westerly wind which generally blows in the month of May – June with a speed of 200 – 250 km/h.
 - (c) It was a joint maritime exercise conducted by the Western Naval Command.
 - (d) It is a Hindi rendition of a movie called Westerly Wind.
84. Which one among the following was the name of the official Mascot of the FIFA Women's World Cup – 2023 ?
- (a) Tazuni
 - (b) Zakumi
 - (c) Fuleco
 - (d) La'eeb
85. Major Dhyan Chand Khel Ratna Award, 2023 was given to :
- (a) Mahaveer Prasad Saini and R.B. Ramesh
 - (b) Chirag Chandrashekhhar Shetty and Satwiksairaj Rankireddy
 - (c) Lalit Kumar and Shivendra Singh
 - (d) Mohammed Shami and Parul Chaudhary
86. Which one of the following cities of India has been included as the 'City of Literature' in the List of UNESCO Creative Cities Network ?
- (a) Gwalior
 - (b) Kozhikode
 - (c) Ladakh
 - (d) Mysuru
87. Which one of the following statements about the 9th edition of 'Exercise MITRA SHAKTI – 2023' is **not** correct ?
- (a) It is a joint military exercise between India and Bangladesh.
 - (b) It was conducted in Aundh (Pune).
 - (c) The aim of this exercise is mandated under the United Nations Charter.
 - (d) The exercise includes joint responses during counter-terrorist operations.

88. Who amongst the following cricketers have been inducted by the ICC in the ICC Hall of Fame ?

1. Sachin Tendulkar
2. Virender Sehwag
3. Vinoo Mankad
4. Anil Kumble

Select the correct answer using the codes given below :

- (a) 1 and 2 only
- (b) 1, 2 and 3 only
- (c) 1, 2, 3 and 4
- (d) 3 and 4 only

89. The Nobel Prize shared by Katalin Karikó and Drew Weissman in 2023 is related to the :

- (a) Modification of mRNA
- (b) RNA therapeutics
- (c) mRNA-LNP technologies
- (d) Genomes of extinct Hominins

90. Which one of the following is **not** a payload carried by the Aditya-L1 mission to carry out systematic study of the Sun ?

- (a) Visible Emission Line Coronagraph (VELC)
- (b) Solar Low Energy X-ray Spectrometer (SoLEXS)
- (c) High Energy L1 Orbiting X-ray Spectrometer (HEL1OS)
- (d) RAMBHA-Langmuir Probe

91. In a game the only possible outcomes are win and loss. Consider the following facts about players A, B, C and D : If A defeats B, then A defeats C. If D defeats B, then B cannot defeat A. If C defeats A, then which of the following is/are correct ?

- I. B defeats D
- II. B defeats A
- III. A defeats D

Select the answer using the codes given below :

- (a) I and II only
- (b) I and III only
- (c) II and III only
- (d) I, II and III

92. P, Q and R are common nouns such that we have the following :

- S1. Every R which is a P is a Q
- S2. Every R is a Q
- S3. Every R which is not a P is a Q

Consider the following implications :

- I. S2 implies S1
- II. S2 implies S3
- III. S1 and S3 imply S2

Which of the above are correct ?

- (a) I and II only
- (b) II and III only
- (c) I and III only
- (d) I, II and III

101. Match List I with List II and select the correct answer using the code given below the Lists :

List I

(*Laser*)

List II

(*Treatment used for*)

- | | |
|-------------------|--------------------------------------|
| A. Excimer | 1. Dental and hair removal |
| B. Diode | 2. Skin damage, wrinkle, scars, etc. |
| C. Carbon dioxide | 3. Kidney Stone |
| D. Holmium YAG | 4. Eye surgery |

Code :

- | | A | B | C | D |
|-----|----------|----------|----------|----------|
| (a) | 3 | 1 | 2 | 4 |
| (b) | 3 | 2 | 1 | 4 |
| (c) | 4 | 1 | 2 | 3 |
| (d) | 4 | 2 | 1 | 3 |

102. How many of the following statements are correct for India's first lunar mission, Chandrayaan-1 ?

1. It was launched on October 22, 2008.
2. It was launched from the Satish Dhawan Space Centre, Sriharikota.
3. The spacecraft orbited the moon at a height of 100 km from the lunar surface.
4. It carried six scientific instruments.
5. The satellite made more than 3400 orbits around the moon.
6. The mission was concluded when communication with the spacecraft was lost on July 22, 2019.

Select the correct answer using the codes given below :

- (a) All
- (b) Four
- (c) Three
- (d) Two

103. Which among the following was the earliest scientific event ?

- (a) The discovery of Oxygen
- (b) The synthesis of Urea
- (c) The discovery of the Electron
- (d) The invention of the Periodic Table of Elements

104. The energy requirement for providing the necessary heat to the 'Lander' and 'Rover' equipment on the lunar surface during lunar nights are usually met through :

- (a) Joule heating
- (b) Thermal devices
- (c) Radioisotope materials
- (d) Fossil fuel

105. Vaccine against which one of the following viruses was invented first ?

- (a) Rabies
- (b) Tuberculosis
- (c) Measles
- (d) Smallpox

106. Which one of the following statements best describes graphene ?

- (a) It is a bulk material made of carbon compounds. It has high strength but lower electrical and thermal conductivities.
- (b) It is a two-dimensional material made of carbon atoms. It has high strength, and higher electrical and thermal conductivities.
- (c) It is a bulk material made of carbon atoms. It has high strength but lower electrical and thermal conductivities.
- (d) It is a two-dimensional material made of carbon compounds. It has high strength, high electrical conductivity but low thermal conductivity.

107. Limestones are formed from :

- (a) Fossilized plants
- (b) Lime present in soil
- (c) Fossilized organic matter
- (d) Fossilized shells of corals and molluscs

108. Which one among the following semiconductor materials is mostly used for the manufacturing of semiconductor chips ?

- (a) Germanium
- (b) Gallium arsenide
- (c) Silicon
- (d) Gallium nitride

109. The older aircrafts are generally stored in deserts. This is because :

- (a) deserts have lot of uninhabited free space.
- (b) the dry conditions reduce corrosion and the hard ground does not need to be paved.
- (c) deserts have stable soil.
- (d) dismantling of aircrafts is easier in deserts.

110. Which one of the following statements is **not** true for dark matter ?

- (a) It is known to weigh nearly 25% of the Universe.
- (b) It is completely invisible.
- (c) It appears to be associated with the vacuum in space.
- (d) It interacts with the electromagnetic force.

111. The decimal equivalent of hexadecimal number A53 is :

- (a) 2642
- (b) 2643
- (c) 2644
- (d) 2641