

NDA 2024 (I) General Ability Test Question Paper

146 questions

This PDF is the question paper only. It does not contain the answer key or explanations.

Answers and explanations for every question are free on the website: <https://www.unlockias.in/nda-2024-i-general-ability-test>

Q1. Select the option that is opposite in meaning to the underlined word: Mohan was living in a deplorable condition.

- (a) reprehensible
- (b) opprobrious
- (c) despicable
- (d) commendable

Q2. Select the option that is opposite in meaning to the underlined word: These exercises will counteract the effects of stress and tension.

- (a) exacerbate
- (b) foil
- (c) thwart
- (d) contravene

Q3. Select the option that is opposite in meaning to the underlined word: You have to persevere with difficult students.

- (a) give up
- (b) persist
- (c) carry on
- (d) stand firm

Q4. Select the option that is opposite in meaning to the underlined word: Their new colour scheme is hideous.

- (a) appalling
- (b) beautiful
- (c) grotesque
- (d) macabre

Q5. Select the option that is opposite in meaning to the underlined word: Everywhere they go, they squander their earnings.

- (a) fritter away
- (b) splurge
- (c) squabble
- (d) manage

Q6. The Earth's climate is _____ changing and evolving.

- (a) passionately
- (b) continually
- (c) deadly
- (d) thoughtfully

Q7. Fill in the blank (cloze passage): _____ changes have been due to natural causes, but others can be attributed to human activities.

- (a) these
- (b) those
- (c) this
- (d) that

Q8. Fill in the blank (cloze passage): ...others can be attributed to _____ activities such as deforestation, emissions from industry and transport.

- (a) practical
- (b) geological
- (c) human
- (d) animal

Q9. ...which have led to the _____ of gases and aerosols.

- (a) assimilation
- (b) absolution
- (c) collection
- (d) accumulation

Q10. ...of gases and aerosols in _____ atmosphere.

- (a) an
- (b) a
- (c) the
- (d) no article

Q11. These gases are known as greenhouse gases because they trap heat and _____ air temperatures.

- (a) raise
- (b) hike
- (c) rise
- (d) balance

Q12. ...acting like a greenhouse on the surface of the _____.

- (a) crust
- (b) core
- (c) mantle
- (d) planet

Q13. ...to create and strengthen the scientific and analytical capacity _____ assessment.

- (a) for
- (b) of
- (c) in
- (d) to

Q14. Of climate change in the country, different studies under Climate Change Action Programme _____.

- (a) are developed
- (b) are initiated
- (c) have developed
- (d) have initiated

Q15. Many important bilateral and multilateral meetings and negotiations are held _____ regular intervals.

- (a) with
- (b) at
- (c) in
- (d) on

Q16. He paused _____

- (a) with a few moments.
- (b) for a few moments.
- (c) by a few moments.
- (d) into a few moments.

Q17. Late at night, our car _____

- (a) broke down on the highway.
- (b) broke up on the highway.
- (c) broke into the highway.
- (d) broke out on the highway.

Q18. All the countries signed the treaty _____

- (a) beneath Germany and France.
- (b) except Germany and France.
- (c) among Germany and France.
- (d) during Germany and France.

Q19. I reminded her _____

- (a) to turn off the lights at night.
- (b) to call off the lights at night.
- (c) to drop off the lights at night.
- (d) to break off the lights at night.

Q20. They told us about the woman _____

- (a) whom lived next door.
- (b) which lived next door.
- (c) who lived next door.
- (d) whose lived next door.

Q21. I'll see you _____

- (a) at the end of February.
- (b) on the end of February.
- (c) along the end of February.
- (d) for the end of February.

Q22. I dislike films _____

- (a) who have sad endings.
- (b) that have sad endings.
- (c) whose have sad endings.
- (d) whom have sad endings.

Q23. The thieves denied _____

- (a) having stealing the money.
- (b) stealing the money.
- (c) had stolen the money.
- (d) having to steal the money.

Q24. Did you _____

- (a) drop out to see Sunita on your way home?
- (b) drop in to see Sunita on your way home?
- (c) drop behind to see Sunita on your way home?
- (d) drop away to see Sunita on your way home?

Q25. Would you like to _____

- (a) meeting her?
- (b) meet her?
- (c) met her?
- (d) meet with her?

Q26. Select the option that best expresses the meaning of the idiom: 'Be bad news'

- (a) feelings of hate
- (b) someone who behaves in a dishonest way
- (c) someone who is considered undesirable
- (d) to be ill

Q27. Select the option that best expresses the meaning of the idiom: 'Back to the drawing board'

- (a) to draw comparisons
- (b) to be a member of planning group
- (c) to start planning again because the previous plan has failed
- (d) to be fast at understanding a situation

Q28. Select the option that best expresses the meaning of the idiom: 'Be in the eye of the storm'

- (a) to look at something quickly
- (b) to fail miserably at a sport
- (c) to see something that you do not want to see
- (d) to be in the midst of a controversy

Q29. Select the option that best expresses the meaning of the idiom: 'Life in the fast lane'

- (a) to lead a selfless life
- (b) to have a happy life without complaints
- (c) life without money or comforts
- (d) an exciting and eventful lifestyle

Q30. Select the option that best expresses the meaning of the idiom: 'To pass the buck'

- (a) to collect money from a group of people
- (b) to shift the responsibility of something to someone
- (c) to have a short conversation with someone
- (d) to have the credentials for a particular job

Q31. Rearrange the segments P, Q, R and S to form a coherent sentence, then choose the correct order. (P) include basic freedoms (Q) the fundamental rights are (R) guaranteed to the individual (S) basic rights and

- (a) QSPR
- (b) QRSP
- (c) SQRP
- (d) RQSP

Q32. Rearrange the segments P, Q, R and S to form a coherent sentence, then choose the correct order. (P) for many millennia (Q) been in the making (R) of a historical process that has (S) the Indian nation is the product

- (a) SRQP
- (b) SQPR
- (c) PRSQ
- (d) RSQP

Q33. Rearrange the segments P, Q, R and S to form a coherent sentence, then choose the correct order. (P) an epoch that was imbued (Q) for its people the start of (R) with a new vision (S) India's Independence represented

- (a) SQPR
- (b) QRPS
- (c) SPQR
- (d) RQSP

Q34. Rearrange the segments P, Q, R and S to form a coherent sentence, then choose the correct order. (P) science and mathematics exhibition (Q) for a discussion on the forthcoming (R) to be present before the Principal (S) all students have been instructed

- (a) SQPR
- (b) RPQS
- (c) SRQP
- (d) QPRS

Q35. Rearrange the segments P, Q, R and S to form a coherent sentence, then choose the correct order. (P) two bowlers and two batsmen respectively (Q) to the new team (R) with the selection of another player (S) the team now has

- (a) QPRS
- (b) SQRP
- (c) RQSP
- (d) RPSQ

Q36. Identify the part of speech of the word 'abode' in the sentence: You are most welcome to visit my humble abode.

- (a) Noun
- (b) Adjective
- (c) Adverb
- (d) Participle

Q37. Identify the part of speech of the word 'beyond' in the sentence: 'The situation is beyond our control.'

- (a) Adjective
- (b) Adverb
- (c) Conjunction
- (d) Preposition

Q38. Identify the part of speech of 'except that' in the sentence: 'I didn't tell him anything except that I needed the money.'

- (a) Adjective
- (b) Adverb
- (c) Preposition
- (d) Conjunction

Q39. Identify the part of speech of the word 'nicely' in the sentence: 'He dry-cleaned my coat nicely.'

- (a) Adjective
- (b) Adverb
- (c) Relative pronoun
- (d) Conjunction

Q40. Identify the part of speech of the word 'this' in the sentence: 'Would you like to buy this new item?'

- (a) Determiner
- (b) Conjunction
- (c) Interjection
- (d) Adjective

Q41. Which one of the following does not belong to the biotic community?

- (a) Water
- (b) Human
- (c) Protozoa
- (d) Bush

Q42. The nature of the biotic community largely depends on: (1) Biotic components (2) Abiotic components. 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

Q43. Which of the following is not an abiotic factor?

- (a) Temperature
- (b) Humidity
- (c) Algae
- (d) Moisture

Q44. In the passage, the word 'aquatic community' refers to:

- (a) Biotic community inhabiting the land
- (b) Biotic community found in water
- (c) Biotic community found in the air
- (d) Assemblage of rain and moisture

Q45. (Reading comprehension) Species are defined on the basis of:

- (a) Similarities only
- (b) Differences only
- (c) Both similarities and differences
- (d) None of the above

Q46. Select the option that is nearest in meaning to the underlined word: The king's son was banished due to the political rivalry.

- (a) deported
- (b) called back
- (c) accepted
- (d) notified

Q47. Select the option that is nearest in meaning to the underlined word: He gave a dazzling performance at the opera.

- (a) brilliant
- (b) dismal
- (c) pathetic
- (d) puerile

Q48. Select the option that is nearest in meaning to the underlined word: She rebuffed all suggestions from her friends.

- (a) took
- (b) rejected
- (c) criticized
- (d) granted

Q49. Select the option that is nearest in meaning to the underlined word: He disowned his royal legacy and became a commoner.

- (a) accepted
- (b) abandoned
- (c) allowed
- (d) questioned

Q50. Select the option that is nearest in meaning to the underlined word: The public was sceptical about the new government policy.

- (a) hopeful
- (b) anxious
- (c) doubtful

(d) expectant

Q51. An infinite combination of resistors, each having resistance $R = 4\ \Omega$, is given below. What is the net resistance between the points A and B? (Each resistance is of equal value, $R = 4$)

- (a) $0\ \Omega$
- (b) $2 + 25\ \Omega$
- (c) $2 + 5\ \Omega$
- (d) Ω

Q53. If the current through an electrical machine running on direct current is 15 A and the machine runs for 10 minutes, the charge that passes through the machine during this time is:

- (a) 150 C
- (b) 150 C
- (c) 900 C
- (d) 9000 C

Q54. Which one of the following is the best shape of a solid metal rod to form the top end of a lightning conductor?

- (a) Pointed (conical tip)
- (b) Flat-topped cylinder
- (c) Spherical head
- (d) Flat rectangular block

Q55. Which of the following forces is/are fundamental in nature? 1. Gravitational force 2. Electromagnetic forces 3. Strong and weak nuclear forces 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

Q56. A spherical shell of outer radius R and inner radius $R/2$ contains a solid sphere of radius $R/2$ (see figure). The density of the material of the solid sphere is ρ and that of the shell is $\rho/2$. What is the average mass density of the larger sphere thus formed?

- (a) $3\rho/4$
- (b) $9\rho/16$
- (c) $7\rho/8$
- (d) $5\rho/8$

Q57. The human eye is like a camera that has a lens with:

- (a) fixed focal length and fixed aperture size.
- (b) variable focal length and fixed aperture size.
- (c) fixed focal length and variable aperture size.
- (d) variable focal length and variable aperture size.

Q58. Under Article 371A of the Constitution of India, with respect to which of the following item(s) the Acts of the Parliament of India shall not apply to the State of Nagaland, unless the Legislative Assembly of the State of Nagaland by a resolution so decides? 1. Religious or social practices of Nagas 2. Naga customary law and procedure 3. Ownership and transfer of land and its resources 4. Boundaries of Nagaland with other states Select the answer using the code given below:

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

Q59. Under Article 191 of the Constitution of India, a person shall be disqualified for being chosen as, and for being, a member of the Legislative Assembly or Legislative Council of a state if the person holds any office of profit under: 1. the Government of India. 2. any 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

Q60. Consider the following UN Declarations/Covenants : 1. Universal Declaration of Human Rights 2. Convention on the Elimination of All Forms of Discrimination Against Women 3. International Covenant of Economic, Social and Cultural Rights 4. Convention on Refugees Which one of the following is the correct chronological order (starting with the earliest) of the above ?

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

Q61. Which one of the following statements regarding the objectives of the Second Five-Year Plan is not correct ?

- (a) Development of the basic and heavy industry sector
- (b) Increase in national income to raise living standards
- (c) Expansion of the consumer goods sector
- (d) Expansion of employment opportunities

Q62. Consider the following statements about the emergence of urban centres in India from circa 6th Century BCE : 1. All of them developed away from the capitals of mahajanapadas. 2. Major towns were located along routes of communication. 3. Many were bustling centres of commercial, cultural and political activity. How many of the above statements is/are correct ?

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

Q63. Consider the following statements about ancient Indian inscriptions : 1. The earliest inscriptions are in Sanskrit. 2. Kharosthi script, used in inscriptions in the north-west, was deciphered with the help of coins of Indo-Greek kings who ruled over the area. 3. Most of the inscriptions mention grand, unique events, and routine agricultural practices do not find mention. How many of the above statements is/are correct ?

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

Q64. The relative atomic mass of boron (which exists in two isotopic forms ^{10}B and ^{11}B) is 10.81. What will be the abundance of ^{10}B and ^{11}B , respectively (consider a sample of 100 atoms) ?

- (a) 19% and 81%
- (b) 81% and 19%
- (c) 38% and 62%
- (d) 62% and 38%

Q65. Which among the following are essential constituents of Portland cement ?

- (a) Sand, lime, clay
- (b) Silica, alumina, lime
- (c) Silica, lime, graphite powder
- (d) Sand, graphene, clay

Q66. Litmus, a well-known acid-base indicator, is derived from:

- (a) Fungi
- (b) Lichens
- (c) Bacteria
- (d) Termite

Q67. What is the oxidation state of Vanadium in V_2O_5 ?

- (a) +2
- (b) +4
- (c) +3
- (d) +5

Q68. Match List-I with List-II and select the correct answer using the code given below the Lists: List-I (Allotrope of Carbon) A. Graphite B. Diamond C. Fullerene D. Graphene List-II (Property) 1. Thinnest and strongest material 2. Hardest natural substance 3. Very light and strong material 4. Soft and slippery material Code:

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

Q69. Consider the following statements regarding the International Date Line: 1. It is roughly 180° meridian, which deviates slightly East and West to avoid land areas surrounded by the Atlantic Ocean. 2. The date to the East of this line is (24 hours) earlier than to the West. 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

Q70. Which of the following statements regarding 'aurora' is/are correct? 1. The solar wind upon reaching the Earth's atmosphere is directed towards two magnetic poles and a colourful display of lights is seen in the night sky. 2. The particles interact with the different gases of the atmosphere and each gas glows with a particular colour. 3. In April 2023, aurora was captured in the night sky in India by the Indian Astronomical Observatory at Hanle, Ladakh. Select the answer using the code given below:

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

Q71. Which of the following statements regarding Barchan is/are correct? 1. It is a crescent-shaped mound of sand, which is deposited by the wind blowing constantly from one direction in a desert. 2. The windward side has a convex steep slope with maximum height at the centre. 3. Two ends of Barchan are called horns and point opposite to the direction the wind blows. 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

Q72. Which of the following statements regarding Regur soil is/are correct? 1. It is a light-coloured, clayey and fertile soil. 2. It is developed on Deccan basaltic lava under hot and humid conditions. 3. Cotton is extensively cultivated in this soil. Select the answer using the code given below:

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

Q73. Which of the following statements regarding clouds is/are correct? 1. Clouds are classified on the basis of altitude and their form. 2. According to altitude they are classified as High, Middle and Low clouds. 3. Stratus, Nimbostratus and Stratocumulus are high clouds. 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

Q74. Consider the following statements regarding 'fronts': 1. The movement of a front causes a slow change in weather in the area over which it moves. 2. Cold fronts are associated with thunderstorms. 3. Warm front is the boundary between an advancing mass of warm air where it is overriding and rising above a mass of colder air. 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

Q75. Consider the following statements regarding soils: 1. Soils having a very high content of sodium and calcium and pH of more than 7.0 are alkaline soils. 2. Black cotton soil had developed on the Deccan basaltic lava under hot and humid conditions. 3. Laterite soils are characterised by a deep weathered layer from which silica has been leached. 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

Q76. Consider the following characteristics of a grassland: 1. An extensive area of mid latitude grasslands are devoid of trees and shrubs. 2. The climate is characterised by hot summers, cold winters and relatively low rainfall occurring mainly in spring and summer. 3. In humid parts, grasses grow to a meter or more in height. On the basis of the above characteristics, select the correct grassland from the options given below:

- (a) Steppes
- (b) Prairies
- (c) Savanna
- (d) Pampas

Q77. Which of the following statements regarding animal cell membrane is correct?

- (a) They are composed of phospholipids only.
- (b) They are composed of proteins only.
- (c) They are composed of phospholipids and proteins only.
- (d) They are composed of phospholipids, proteins and cholesterol (lipid).

Q78. Which of the following is not a part of compound microscope?

- (a) Mirror
- (b) Stage
- (c) Clip
- (d) Retina

Q79. Which one of the following is the correct sequence in increasing complexity?

- (a) Protein – Organism – Tissue – Organ
- (b) Protein – Organ – Tissue – Organism
- (c) Protein – Organism – Organ – Tissue
- (d) Protein – Tissue – Organ – Organism

Q80. Consider the following cell types: 1. Monocyte 2. Chondrocyte 3. Basophil 4. Lymphocyte How many of the above belong to animal cell types?

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

Q81. In the human digestive system, which one among the following is the role of the pancreas?

- (a) Secretion of surfactants to break up lipid droplets
- (b) Storage and regulated release of bile
- (c) Secretion of lipase, amylase and protease
- (d) Neutralizing stomach acids

Q82. Consider the following statements: 1. DNA replication takes place when chromatin is opened up. 2. Chromatin organises itself into rod-shaped chromosomes before cell division. 3. Both prokaryotes and eukaryotes have the same process for cell division. 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

Q83. A uniform meter scale of mass 0.24 kg is made of steel. It is kept on two wedges, W1 and W2, in a horizontal position. W1 is at a distance of 0.2 m from one of its ends, while W2 is at distance of 0.4 m from the other end. If the force on the scale is N1 due to W1 and N2 due to W2, then: (take $g = 10.0 \text{ m s}^{-2}$)

- (a) $N_1 = 1.6 \text{ N}$ and $N_2 = 0.8 \text{ N}$
- (b) $N_1 = 0.8 \text{ N}$ and $N_2 = 1.6 \text{ N}$
- (c) $N_1 = 0.6 \text{ N}$ and $N_2 = 1.8 \text{ N}$
- (d) $N_1 = 1.8 \text{ N}$ and $N_2 = 0.6 \text{ N}$

Q84. Escape speed from the Earth is close to 11.2 km s^{-1} . On another planet whose radius is half of the Earth's radius and whose mass density is four times that of the Earth, the escape speed in km s^{-1} will be close to:

- (a) 11.2
- (b) 15.8
- (c) 5.6
- (d) 7.9

Q85. Which one of the following does not apply to sound waves in fluids?

- (a) They transport energy
- (b) They need a medium to travel
- (c) They are transverse
- (d) They travel faster in liquids than in gases

Q86. A ball of 0.1 kg mass is dropped on a hard floor from a height of 0.45 m and rises to a height of 0.20 m. If it was in touch with the floor for 0.1 s, the net force it applied on the floor while bouncing is: (take the gravitational acceleration $g = 10 \text{ m s}^{-2}$)

- (a) 1.0 N
- (b) 6.0 N
- (c) 3.0 N
- (d) 5.0 N

Q87. Which one of the following statements regarding simple pendulum is correct? Simple pendulum has a time period independent of amplitude:

- (a) only for small amplitudes because then the net force on its bob is independent of its displacement.
- (b) for any amplitude because the net force on the bob is always proportional to its displacement.
- (c) for any amplitude because the net force on the bob is independent of its displacement.

(d) only for small amplitudes because then the net force on its bob is proportional to its displacement.

Q88. Which one of the following about different frictional forces is correct?

- (a) Kinetic friction > Static friction > Rolling friction
- (b) Static friction > Rolling friction > Kinetic friction
- (c) Static friction > Kinetic friction > Rolling friction
- (d) Static friction > Kinetic friction = Rolling friction

Q89. A metallic bob X of mass m is released from position A. It collides elastically with another identical bob Y placed at rest at position B on a horizontal frictionless table. The angle AOB is 30 degrees. How high does the bob X rise immediately after the collision?

- (a) To the same height as that of position A on the other side in the same trajectory
- (b) To half the height as that of position A on the other side along the same trajectory
- (c) The same height at position A
- (d) It stops at position B

Q90. Consider the two statements given below: Statement-1: Infrared waves are also called heat waves. Statement-2: Water molecules readily absorb infrared waves. Select the correct answer using the code given below:

- (a) Both the statements are individually true and Statement-2 is the correct explanation of Statement-1.
- (b) Both the statements are individually true, but Statement-2 is not the correct explanation of Statement-1.
- (c) Statement-1 is true, but Statement-2 is false.
- (d) Statement-2 is true, but Statement-1 is false.

Q91. Which of the following statements are correct? 1. British 'trade surplus' with India in the nineteenth century meant that the value of British exports to India was much higher than the value of British imports from India. 2. India played a crucial role in the late-nineteenth-century world economy by helping Britain balance its deficits. 3. Britain grew opium in India and exported it to China and, therefore, for a while after the 1820s, opium became India's single largest export. 4. The nineteenth century saw export of Indian raw materials decline, and that of manufactured goods increase. Select the answer using the code given below:

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

Q92. Match List-I with List-II and select the correct answer using the code given below the Lists: List-I (Unit in use in early India) A. Muhurta B. Raktika C. Angula D. Pada List-II (Content) 1. Measure of weight 2. Measure of time 3. Metre of poetry 4. Measure of length Code:

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

Q93. First coins in Indian history bearing the names and images of rulers were issued by the:

- (a) Mauryas
- (b) Pushyabhutis
- (c) Guptas
- (d) Indo-Greeks

Q94. Social theorists in the nineteenth and twentieth centuries emphasised the emergence of industrialisation, urbanisation, secularisation and bureaucratisation as hallmarks of:

- (a) Modernity
- (b) Feudalism
- (c) Kingship
- (d) Medievalism

Q95. Consider the following events: 1. Launch of Non-Cooperation Movement 2. All-India Khilafat Conference in Delhi 3. Passing of the Rowlatt Act 4. Jallianwala Bagh incident Which one of the following is the correct chronological order of the given events (earliest to latest)?

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

Q96. Match List-I with List-II and select the correct answer using the code given below the Lists: List-I (System/Category) A. Upari B. Pattadar C. Mirasidar D. Inam lands List-II (Description) 1. Peasants directly responsible for the payment of revenue 2. Category of tenancy tenure held under the Marathas 3. Gifts of land or land revenue 4. Co-parcenary title holder and designated revenue payer in southern India Code:

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

Q97. Which of the following statements about Vijayanagara king Krishnadevaraya's expeditions are correct? 1. In the early years of his reign he marched against the ruler of Orissa. 2. In 1520 CE, he captured the fort of Raichur from Ismail Adil Khan. 3. Krishnadevaraya restored Sultan Mahmud Shah to power and assumed the title of Yavana-rajya-sthapan-acharya. Select the answer using the code given below:

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

Q98. Water gas is a mixture of:

- (a) CO_2 and H_2
- (b) CO and H_2
- (c) CO_2 and H_2O
- (d) CO and H_2O

Q99. Human body works in the pH range of:

- (a) 6.8 – 7.2
- (b) 7.0 – 7.8
- (c) 6.5 – 7.5
- (d) 7.5 – 8.0

Q100. Which one among the following statements with reference to the properties of water is not correct?

- (a) The specific heat of water is abnormally high.
- (b) Latent heat of fusion of water is very low.
- (c) Density of water is higher than ice.
- (d) Pure water is a non-conductor of electricity.

Q101. Which one among the following compounds has a sweet and fruity smell?

- (a) Ethyl alcohol
- (b) Acetic acid
- (c) Ethyl acetate
- (d) Acetophenone

Q102. What is the coordination number of Na^+ and Cl^- ions in NaCl lattice?

- (a) 6, 1
- (b) 1, 6
- (c) 6, 6
- (d) 5, 5

Q103. Which one among the following is present in the nettle leaf hairs that causes burning pain?

- (a) Methanoic acid
- (b) Ethanoic acid
- (c) Benzoic acid
- (d) Acetic acid

Q104. Which one among the following is known as Milk of Magnesia?

- (a) Magnesium bicarbonate
- (b) Magnesium carbonate
- (c) Magnesium sulphate
- (d) Magnesium hydroxide

Q105. Soap with water forms:

- (a) Metallotropic liquid crystal
- (b) Thermotropic liquid crystal
- (c) Homogeneous solution
- (d) Lyotropic liquid crystal

Q106. Which among the following is the correct composition of Borax?

- (a) Sodium, Boron, Magnesium and Hydrogen
- (b) Sodium, Boron, Oxygen and Hydrogen
- (c) Potassium, Boron, Oxygen and Hydrogen
- (d) Sodium, Boron, Nitrogen and Hydrogen

Q107. Which one among the following oxides has the highest melting point?

- (a) Na_2O
- (b) MgO
- (c) Fe_2O_3
- (d) CuO

Q108. Which of the following statements regarding neap tides is/are correct? 1. It occurs every 14 – 15 days, which coincides with the first and third quarter of the Moon. 2. This tide has a small tidal range because the gravitational forces of the Moon and the Sun are in quadrature. Select the answer using the code given below:

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

Q109. Which of the following statements regarding earthquakes is/are correct? 1. The point on the Earth's surface directly above the focus is called the epicentre of the earthquake. 2. Earthquakes generate Primary and Secondary waves that radiate outward from the earthquake focus. 3. Deep-focus earthquakes are likely to cause more damage than shallow-focus earthquakes. 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

Q110. Which of the following statements regarding air temperature is/are correct? 1. Air temperature is measured at a standard height of 1.2 m (4.0 feet) above the ground surface. 2. The average rate of temperature decrease with height is termed as the environmental temperature lapse rate. Select the answer using the code given below:

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

Q111. Which of the following statements regarding humidity is/are correct? 1. It is a ratio between the actual amount of water vapour present in the atmosphere and the maximum amount it can hold at a given temperature. 2. When the relative humidity is high, more water evaporates from the skin. 3. Higher the air temperature lower the relative humidity of the air. Select the answer using the code given below:

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

Q112. Which of the following statements regarding cyclones and anti-cyclones is/are correct? 1. In the Northern Hemisphere, cyclones rotate counter clockwise and anticyclones rotate clockwise. 2. Cyclones are often associated with cloudy or rainy weather, whereas anticyclones are often associated with fair weather. 3. In the Southern Hemisphere, the cyclonic spiral will be clockwise because the Coriolis force acts to the left. 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

Q113. Identify the sea-port in India on the basis of the given characteristics: 1. It is more than a century old port on the west coast of India. 2. It is a natural harbour protected by a breakwater and also by a mole. 3. A deep draft channel of about 14 metres depth permits large vessels to enter the harbour. Select the correct sea-port from the options given below:

- (a) Mormugao Port
- (b) Deendayal Port
- (c) Cochin Port
- (d) Jawaharlal Nehru Port

Q114. Identify the Iron and Steel Plant on the basis of the given characteristics: 1. It receives coal from Jharia and iron-ore from Sundargarh and Kendujhar. 2. Power for the electric furnaces is procured from Hirakund. 3. Water is obtained from Koel and Sankh rivers. Select the correct Iron and Steel Plant from the options given below:

- (a) Bhilai Steel Plant
- (b) Durgapur Steel Plant
- (c) Rourkela Steel Plant
- (d) Bokaro Steel Plant

Q115. Which of the following statements regarding Earth's internal structure is/are correct? 1. The oceanic crust is heavier than the continental crust. 2. Most of the Earth's internal heat is contained within the mantle. 3. Large convective cells in the crust circulate heat and drive plate-tectonic processes. Select the answer using the code given below:

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

Q116. Which of the following statements regarding the given rivers is/are correct? 1. Tsangpo crosses over into India under the name of Dihang. 2. Godavari has the second largest river basin covering about 10 percent of the area of India. 3. Rivers Chambal and Betwa are the important tributaries of river Ganga which join river Ganga directly in Uttar Pradesh. 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

Q117. Which of the following statements regarding the World Climate Types and their relation with Inter Tropical Convergence Zone (ITCZ) is/are correct? 1. Tropical Wet Climate is one of the world's rainiest due to the dominance of the ITCZ over it. 2. Tropical Savanna Climate experiences a distinctive alternation of wet and dry seasons, caused chiefly by the seasonal shift in latitude of the subtropical highs and ITCZ. 3. The Tropical Monsoonal Climate experiences heavy rainfall as a consequence of the nearness of the ITCZ for much of the year. 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

Q118. Which of the following statements regarding tropical cyclones is/are correct? 1. These storms develop during the summer and autumn in every tropical ocean except the South Atlantic and eastern South Pacific Oceans. 2. Tropical cyclones that occur in the North Atlantic and eastern North Pacific Oceans are known as typhoons. 3. Tropical cyclones that occur in the Indian and South Pacific Oceans are called cyclones. Select the answer using the code given below:

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

Q119. Identify the land biome on the basis of the given characteristics: 1. Their climates are characterised by high rainfall and temperatures that vary from cold to mild. 2. These forests contain primarily deciduous trees – including maple, oak, hickory and beechwood. 3. Raccoons, opossums, bats and squirrels are found in the trees. Select the correct land biome from the options given below:

- (a) Tropical forest
- (b) Temperate forest
- (c) Boreal forest
- (d) Mediterranean forest

Q120. Leaves of most plants appear green because the chlorophyll present in it:

- (a) absorbs red and blue light while reflecting green light.
- (b) absorbs green light only.
- (c) absorbs green light while reflecting red and blue light.
- (d) reflects red light and absorbs blue and green light.

Q121. In most prokaryotes, the chromosome number is:

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

Q122. Bacterial DNA is referred to as naked because it is not associated with:

- (a) any scaffold
- (b) proteins
- (c) ribozymes
- (d) plasmid

Q123. Which one among the following cells produces antibodies against a foreign antigen?

- (a) Lymphocytes
- (b) Erythrocytes
- (c) Eosinophils
- (d) Platelets

Q125. Of the following, which does not belong to a nuclear reactor?

- (a) A turbine
- (b) A heat exchanger
- (c) A mechanism to reduce CO₂ emission
- (d) A reaction chamber

Q127. A microscope may be a combination of:

- (a) two convex lenses.
- (b) a convex and a concave lens.
- (c) two concave lenses.
- (d) a convex lens and a convex mirror.

Q129. Which of the following statements with regard to the phenomenon of the primary rainbow formation by water droplets is/are correct? 1. It involves refraction and one internal reflection of sunlight. 2. It involves refraction of sunlight only. 3. It is formed as the inner bow. 4. It may involve more than one internal reflection as well as refraction of sunlight. Select the answer using the code given below:

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

Q130. Which one of the following scientists mentioned that an electron in an atom could revolve in certain stable orbits without the emission of radiant energy?

- (a) Ernest Rutherford
- (b) J.J. Thomson
- (c) Niels Bohr
- (d) Albert Einstein

Q131. LIGO experiment confirmed one of the predictions of:

- (a) String theory
- (b) Special theory of relativity
- (c) Quantum mechanics
- (d) General theory of relativity

Q132. A block of mass 2 kg, moving with the initial speed of 3 m/s comes to rest on a rough horizontal surface after travelling a distance of 3 m. The magnitude of the frictional force is:

- (a) 9 N
- (b) 3 N
- (c) 18 N
- (d) 1 N

Q133. Which one of the following is primarily responsible for conduction of current in a metal?

- (a) Bound electrons
- (b) Free electrons
- (c) Both bound and free electrons
- (d) Ions

Q134. Which of the following were features of the postal system of India as described by Ibn Battuta ? 1. The foot post carries a ringing bell in one hand. 2. The horse post is called uluq, stationed at a distance of every four miles. 3. The foot post or dawa has one station at every four kos of distance. 4. The foot post is quicker than horse post. Select the correct answer using the code given below :

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

Q135. Which one of the following texts is a commentary written by Chakrapanidatta (11th Century CE from Bengal) on the Sushrut Samhita ?

- (a) Sabdachandrika
- (b) Bhanumati
- (c) Nitiratnakara
- (d) Lohasarasava

Q136. Consider the following statements about the arrival of tobacco in India : 1. Tobacco plant arrived first in the Deccan. 2. Tobacco spread to northern India in the early years of the seventeenth century. 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

Q137. Consider the following Women's Associations and their important associates in early twentieth-century India : 1. Women's Indian Association of 1917 : Margaret Cousins 2. National Council of Women in India of 1925 : Sarala Devi Chaudhurani 3. Bharat Stree Mahamandal of 1910 : Lady Meherbai Tata Which of the above pairs is/are correctly matched ?

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

Q138. Consider the following statements about the issue of separate electorate during the early decades of the twentieth century in India as a means to secure adequate representation for the deprived social categories in the absence of universal adult franchise : 1. The All India Depressed Classes Association of M. C. Rajah was staunchly in favour of joint electorate. 2. The All India Depressed Classes Leaders' Conference demanded separate electorate. 3. The Communal Award in September 1932 recognised the right to separate electorate for the 'untouchables'. 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

Q139. Which of the following statements with regard to the famous 'silk routes' are correct? 1. Silk routes refer to East-bound European silk cargoes along these routes. 2. There were several silk routes, over land and by sea, joining together vast regions of Asia with Europe and northern Africa. 3. They are known to have existed since before the Christian Era and thrived almost till the fifteenth century. 4. Besides silk, Chinese pottery, textiles and spices from India and South-east Asia travelled the same route. Select the 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

Q140. Consider the following statements about Ajanta paintings: 1. The surface of the rock was coated with clay mixed with rice husk and gum and a coat of lime was applied over this. 2. The outline drawing was done first on the lime coating and colours were added subsequently. 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

Q141. Which of the following statements with regard to the Square Kilometer Array (SKA) project is/are correct? 1. SKA is a state of the art, mega science international facility to build the world's biggest and most sensitive radio telescope for addressing a wide variety of cutting-edge science goals. 2. The Government of India has accorded its approval for India's participation in the international mega science project. Select the answer using the code given below:

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

Q142. Exercise Desert Cyclone is a joint military exercise between India and:

- (a) Kuwait
- (b) Saudi Arabia
- (c) United Arab Emirates
- (d) Oman

Q143. Which of the following statements with regard to the constitution of Finance Commission is/are correct? 1. The Government of India has recently constituted the Sixteenth Finance Commission under the Chairmanship of Dr. Arvind Panagariya. 2. Finance Commission is constituted in pursuance to Article 263 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

Q144. Recently the Ministry of Environment, Forest and Climate Change has submitted three nominations from India for Wetland City Accreditation (WCA) under the Ramsar Convention on Wetlands. Which one among the following cities is not one among them?

- (a) Indore
- (b) Bhopal
- (c) Udaipur
- (d) Jodhpur

Q145. Which of the following statements is/are correct? 1. In India, 12th March is celebrated as the National Youth Day. 2. National Youth Day is celebrated to commemorate the birth anniversary of Swami Vivekananda. Select the answer using the code given below:

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

Q146. Consider the following statements about INS Sagardhwani: 1. It is an oceanographic research vessel of Naval Physical and Oceanographic Laboratory (NPOL) of DRDO. 2. Recently it embarked on the Sagar Maitri Mission-4 to establish long-term scientific partnerships with Indian Ocean Rim countries in Ocean Research and Development. 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

Q147. Who among the following is the Chairman of the Committee constituted by the Government of India to examine the issue of holding simultaneous elections in the country and to make recommendations thereon?

- (a) Union Home Minister Shri Amit Shah
- (b) Chief Justice of India Shri Dhananjaya Yeshwant Chandrachud
- (c) Former President of India Shri Ram Nath Kovind
- (d) Chief Election Commissioner of India Shri Rajiv Kumar

Q148. In January 2024, India's first all-girls' Sainik School was inaugurated at:

- (a) Bhopal
- (b) Kohima
- (c) Vrindavan
- (d) Namsai

Q149. In February 2024, Government of India has decided to scrap the Free Movement Regime (FMR) between India and:

- (a) Myanmar
- (b) Bhutan
- (c) Bangladesh
- (d) Nepal

Q150. Who among the following is the author of the book 'Why Bharat Matters'?

- (a) L.K. Advani
- (b) S. Jaishankar
- (c) Mohan Bhagwat
- (d) Pranab Mukherjee