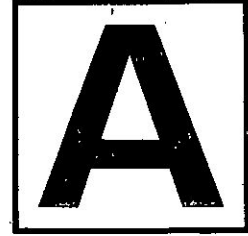


DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

T.B.C. : B-OEBA-P-LEW

Test Booklet Series

Serial No.



TEST BOOKLET

GENERAL ABILITY TEST

Time Allowed : Two Hours and Thirty Minutes

Maximum Marks : 600

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 150 items (questions) in two Parts : **PART - A** and **PART - B**. **Each item in PART - B is printed both in Hindi and English.** 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 THE CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (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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ध्यान दें : अनुदेशों का हिन्दी रूपान्तर इस पुस्तिका के पिछले पृष्ठ पर छपा है ।

PART - A

Selecting Words

Directions : In this section, each of the following sentences has a blank space and four words given after the sentence. Select whichever word you consider most appropriate for the blank space and indicate your response in the Answer Sheet accordingly.

1. When the bus was at full speed, its brakes failed and an accident was _____.
(a) inevitable
(b) undeniable
(c) fatal
(d) miserable
2. To explain his design to his visitors, the architect _____ a simple plan on the blackboard.
(a) built
(b) finalised
(c) sketched
(d) arranged
3. Though Bonsai, a well-known art form, originated in China, it was _____ by the Japanese.
(a) cultivated
(b) finished
(c) perfected
(d) enlarged
4. He is greatly admired for his _____ behaviour.
(a) decrepit
(b) decadent
(c) decorative
(d) decorous
5. Would you mind _____ to the Principal how the trouble started?
(a) remarking
(b) saying
(c) explaining
(d) talking
6. Vaccination will make people immune _____ certain diseases for a given period.
(a) against
(b) to
(c) with
(d) for
7. The two boys looked so alike that it was impossible to _____ between them.
(a) discriminate
(b) discern
(c) distinguish
(d) identify
8. The campers _____ their tents at the base of the mountain.
(a) installed
(b) dug
(c) pitched
(d) established
9. The enemy had captured him and his life was at stake, still he refused to _____ the state secrets.
(a) divulge
(b) divert
(c) indulge
(d) invert

Antonyms

Directions : Each item in this section consists of an underlined word in given sentences. Each sentence is followed by four words. Select the word which is most nearly **opposite** in meaning to the underlined word.

10. He handled the machine with deft fingers.
(a) delicate
(b) sturdy
(c) quick
(d) clumsy
11. I was deeply affected by his urbane behaviour.
(a) rural
(b) rude
(c) irrational
(d) indifferent
12. His timidity proved costly.
(a) arrogance
(b) boldness
(c) skilfulness
(d) cunning
13. Arrangements were made to handle the mammoth gathering tactfully.
(a) significant
(b) small
(c) unruly
(d) noisy
14. He was engrossed in his work when I walked in.
(a) occupied
(b) inattentive
(c) engaged
(d) absent
15. These are the main points of the preceding paragraph.
(a) following
(b) previous
(c) first
(d) last
16. He made a shrewd guess.
(a) clever
(b) wild
(c) incorrect
(d) discriminating
17. He is suffering from a severe cough.
(a) violent
(b) mild
(c) bad
(d) continuous
18. Cumulatively, the effect of these drugs is quite bad.
(a) Individually
(b) Obviously
(c) Clearly
(d) Collectively
19. He was conspicuous because of his colourful shirt.
(a) charming
(b) ugly
(c) small
(d) unnoticeable
20. He hates these continual arguments with his friend.
(a) repeated
(b) irrational
(c) occasional
(d) regular

Spotting Errors

Directions : Each question in this section has a sentence with three underlined parts labelled (a), (b) and (c). Read each sentence to find out whether there is any error in any underlined part and indicate your response in the Answer Sheet against the corresponding letter i.e., (a) or (b) or (c). If you find no error, your response should be indicated as (d).

21. She said that she was understanding his point of view very well. No error.

(a)

(b)

(c)

(d)

22. All the houses having been washed away by the floods,

(a)

(b)

the villagers sought shelter in the panchayat office. No error.

(c)

(d)

23. It is necessary for us to familiarize with and get used to the ways of the people

(a)

(b)

among whom we live. No error.

(c)

(d)

24. The mother asked the child why did she cry out in her sleep. No error.

(a)

(b)

(c)

(d)

25. I asked him that why he was angry but he did not answer. No error.

(a)

(b)

(c)

(d)

26. Had I not taken ill, I would have sent you my research paper much earlier. No error.
(a) (b) (c) (d)

27. The barn owl helps the farmer by destroying rats which could, if left unchecked do a lot of
(a) (b)
damage to the crops. No error.
(c) (d)

28. He had gone home three weeks ago and was expected back yesterday, but he has not come yet.
(a) (b) (c)

No error.

(d)

29. We must sympathize for others in their troubles. No error.
(a) (b) (c) (d)

30. The scientists in America are trying for long to discover the genes responsible for ageing.
(a) (b) (c)

No error.

(d)

Sentence Improvement

Directions : In this section, look at the underlined part of each sentence. Below each sentence are given three possible substitutions for the underlined part. If one of them (a), (b) or (c) is better than the underlined part, indicate your response on the Answer Sheet against the corresponding letter (a), (b) or (c). If none of the substitutions improves the sentence, indicate (d) as your response on the Answer Sheet. Thus a "No improvement" response will be signified by the letter (d).

31. When he heard the rhetorical speech of the leader, he was carried along by his enthusiasm.
(a) carried aloft
(b) carried down
(c) carried away
(d) No improvement
32. After the heavy rains last week, the water in the lake raised another two feet.
(a) rose another two feet
(b) arisen another two feet
(c) would raise another two feet
(d) No improvement
33. One can live and work in a town without being aware of the daily march of the sun across the sky without never seeing the moon and stars.
(a) seldom
(b) hardly
(c) ever
(d) No improvement
34. Applications of those who are graduates will be considered.
(a) whom are graduates
(b) whose are graduates
(c) whom are only graduates
(d) No improvement
35. It is raining heavily all through this week.
(a) has rained
(b) rains
(c) rained
(d) No improvement
36. The sparrow took no notice about the bread.
(a) notice of
(b) notice from
(c) notice to
(d) No improvement
37. As he spoke about his achievements, his high claims amused us.
(a) big
(b) tall
(c) long
(d) No improvement
38. We ought to stand for what is right.
(a) stand at
(b) stand on
(c) stand up
(d) No improvement
39. He enjoys to tell stories to children.
(a) how to tell stories
(b) telling stories
(c) to narrate stories
(d) No improvement
40. In a few minutes' time, when the clock strikes six, I would be waiting here for an hour.
(a) shall be waiting on
(b) shall have been waiting
(c) shall wait
(d) No improvement

Synonyms

Directions : Each item in this section consists of an underlined word in given sentences. Each sentence is followed by four words. Select the word which is most **similar** in meaning to the underlined word and mark your response in the Answer Sheet accordingly.

41. Suddenly there was a bright flash, followed by a deafening explosion.
(a) dangerous
(b) terrifying
(c) mild
(d) very loud
42. He showed exemplary courage during the crisis.
(a) usual
(b) durable
(c) commendable
(d) some
43. When the new teacher entered the classroom, he found the pupils restive.
(a) at rest
(b) idle
(c) quiet
(d) impatient
44. There is no dearth of talent in this country.
(a) scarcity
(b) availability
(c) plenty
(d) absence
45. The servants retired to their quarters.
(a) entered
(b) went away
(c) ran away
(d) mobilised
46. The navy gave tactical support to the marines.
(a) sensitive
(b) strategic
(c) immediate
(d) expert
47. A genius tends to deviate from the routine way of thinking.
(a) dispute
(b) disagree
(c) distinguish
(d) differ
48. He was greatly debilitated by an attack of influenza.
(a) depressed
(b) weakened
(c) worried
(d) defeated
49. His efforts at helping the poor are laudable.
(a) welcome
(b) sincere
(c) good
(d) praiseworthy
50. His conduct brought him reproach from all quarters.
(a) rebuke
(b) sympathy
(c) indifference
(d) remorse

PART - B

Directions : The following 05 (Five) items consist of two statements, Statement I and Statement II. Examine these two statements carefully and select the answers to these items using the code given below :

Code :

- (a) Both the Statements are individually true and Statement II is the correct explanation of Statement I.
- (b) Both the Statements are individually true but Statement II is **not** the correct explanation of Statement I.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

51. **Statement I :** Petroleum is a mixture of many different hydrocarbons of different densities.

Statement II : The grade of petroleum depends mainly on the relative proportion of the different hydrocarbons.

52. **Statement I :** There is high salinity in Red Sea.

Statement II : Rate of evaporation is high in Red Sea.

53. **Statement I :** Volcanic eruption is accompanied by earthquakes.

Statement II : Volcanoes erupt water vapours and dust particles in the atmosphere.

54. **Statement I :** Plantation farming has mostly been practised in humid tropics.

Statement II : The soil of humid tropics is highly fertile.

55. **Statement I :** India has wide variation in population density.

Statement II : Factors like agricultural productivity and history of settlements have greatly influenced the population density pattern in India.

56. A container is first filled with water and then the entire water is replaced by mercury. Mercury has a density of $13.6 \times 10^3 \text{ kg/m}^3$. If X is the weight of the water and Y is the weight of the mercury, then

- (a) $X = Y$
- (b) $X = 13.6 Y$
- (c) $Y = 13.6 X$
- (d) None of the above

57. Density of water is

- (a) maximum at 0°C
- (b) minimum at 0°C
- (c) maximum at 4°C
- (d) minimum at -4°C

58. The phosphorus used in the manufacture of safety matches is

- (a) Red phosphorus
- (b) Black phosphorus
- (c) White phosphorus
- (d) Scarlet phosphorus

59. Which one of the following is **not** a chemical change ?

- (a) Ripening of fruits
- (b) Curdling of milk
- (c) Freezing of water
- (d) Digestion of food

60. One of the main causes of air pollution in cities is emissions from vehicles like cars and trucks. Cars emit various pollutants which are bad for human health when inhaled, like

1. Nitrogen oxides (NO_x)
2. Carbon monoxide (CO)
3. Carbon dioxide (CO_2)
4. Benzene

Which of the above pollutants are *not* tolerated by human beings even at very low levels?

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

61. Arrange the following centres of AIIMS from East to West :

1. Rishikesh
2. New Delhi
3. Patna
4. Bhubaneswar

Select the correct answer using the code given below :

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

62. Suppose the force of gravitation between two bodies of equal masses is F . If each mass is doubled keeping the distance of separation between them unchanged, the force would become

- (a) F
- (b) $2F$
- (c) $4F$
- (d) $\frac{1}{4}F$

63. A body has a free fall from a height of 20 m. After falling through a distance of 5 m, the body would

- (a) lose one-fourth of its total energy
- (b) lose one-fourth of its potential energy
- (c) gain one-fourth of its potential energy
- (d) gain three-fourth of its total energy

64. Soap is sodium or potassium salt of

- (a) Stearic acid
- (b) Oleic acid
- (c) Palmitic acid
- (d) All of the above

65. Mass of a particular amount of substance

1. is the amount of matter present in it.
2. does not vary from place to place.
3. changes with change in gravitational force.

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 only

66. Which of the following substances are harmful for health if present in food items ?

1. Pesticide residues
2. Lead
3. Metanil yellow
4. Mercury

Select the correct answer using the code given below :

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

67. In India, glacial terraces known as 'Karewas' are found in

- (a) Sapt Kosi Valley
- (b) Jhelum Valley
- (c) Alakananda Valley
- (d) Teesta Valley

68. Structurally, the Meghalaya region is a part of

- (a) Shiwalik Range
- (b) Deccan Plateau
- (c) Greater Himalaya
- (d) Aravalli Range

69. Two bodies A and B are moving with equal velocities. The mass of B is double that of A. In this context, which one of the following statements is correct ?

- (a) Momentum of B will be double that of A.
- (b) Momentum of A will be double that of B.
- (c) Momentum of B will be four times that of A.
- (d) Momenta of both A and B will be equal.

70. During solar eclipse

- (a) the earth comes in between the sun and the moon.
- (b) the moon comes in between the sun and the earth.
- (c) the moon comes exactly halfway between the earth and the sun.
- (d) the sun comes in between the earth and the moon.

71. The S.I. unit of acceleration is

- (a) ms^{-1}
- (b) ms^{-2}
- (c) cms^{-2}
- (d) kms^{-2}

72. An atom of carbon has 6 protons. Its mass number is 12. How many neutrons are present in an atom of carbon ?

- (a) 12
- (b) 6
- (c) 10
- (d) 14

73. Which one of the following is a reduction reaction ?

- (a) $2 \text{Mg (s)} + \text{O}_2 \text{(g)} \rightarrow 2 \text{MgO (s)}$
- (b) $\text{S (s)} + \text{O}_2 \text{(g)} \rightarrow \text{SO}_2 \text{(g)}$
- (c) $2 \text{HgO (s)} \xrightarrow{\text{heat}} 2 \text{Hg (l)} + \text{O}_2 \text{(g)}$
- (d) $\text{Mg (s)} + \text{S (s)} \rightarrow \text{MgS (s)}$

74. Which of the commonly used household item(s) release Bisphenol A (BPA) which is an endocrine disruptor and bad for human health ?

1. Steel utensils
2. Plastic coffee mugs
3. Aluminium utensils
4. Plastic water storage bottles

Select the correct answer using the code given below :

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

75. The Nagarjuna Sagar Project is located on which one of the following rivers ?
- Godavari
 - Krishna
 - Kavery
 - Mahanadi
76. Consider the following statements :
- Rajmahal highlands consist of lava flow deposits.
 - Bundelkhand gneiss belong to the oldest Achaean rocks of India.
- Which of the statements given above is/are correct ?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
77. An object is placed at the centre of curvature of a concave mirror of focal length 16 cm. If the object is shifted by 8 cm towards the focus, the nature of the image would be
- real and magnified
 - virtual and magnified
 - real and reduced
 - virtual and reduced
78. A pencil is placed upright at a distance of 10 cm from a convex lens of focal length 15 cm. The nature of the image of the pencil will be
- real, inverted and magnified
 - real, erect and magnified
 - virtual, erect and reduced
 - virtual, erect and magnified
79. Which one of the following is a conventional energy source ?
- Tidal energy
 - Geothermal energy
 - Solar energy
 - Biomass energy
80. Which one of the following oxides of nitrogen is known as 'anhydride' of nitric acid ?
- N_2O
 - N_2O_3
 - NO_2
 - N_2O_5
81. Which one of the following is the chemical name for baking soda ?
- Sodium bicarbonate (Sodium hydrogen carbonate)
 - Sodium carbonate
 - Potassium bicarbonate (Potassium hydrogen carbonate)
 - Potassium carbonate

82. Which of the following statements about DNA is/are correct ?

1. DNA is the hereditary material of all living organisms.
2. All segments of DNA code for synthesis of proteins.
3. Nuclear DNA is double helical with two nucleotide chains which run anti-parallel.
4. DNA is also found in mitochondria.

Select the correct answer using the code given below :

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

83. Which organisation prepares the topographical maps of India ?

- (a) Geological Survey of India
- (b) Archaeological Survey of India
- (c) Survey of India
- (d) National Atlas and Thematic Mapping Organisation

84. Which one of the following is *not* an international boundary line ?

- (a) Dresden Line
- (b) Durand Line
- (c) Maginot Line
- (d) 38th Parallel

85. A lady is standing in front of a plane mirror at a distance of 1 m from it. She walks 60 cm towards the mirror. The distance of her image now from herself (ignoring the thickness of the mirror) is

- (a) 40 cm
- (b) 60 cm
- (c) 80 cm
- (d) 120 cm

86. The brightness of a star depends on its

- (a) size and temperature only
- (b) size and distance from the earth
- (c) size, temperature and mass
- (d) size, temperature and distance from the earth

87. When a solid is heated, it turns directly into a gas. This process is called

- (a) Condensation
- (b) Evaporation
- (c) Sublimation
- (d) Diffusion

88. Which one of the following is water gas ?

- (a) Mixture of carbon monoxide and hydrogen
- (b) Mixture of carbon monoxide and nitrogen
- (c) Mixture of carbon dioxide and water vapour
- (d) Mixture of carbon monoxide and water vapour

89. Which of the following statements are correct ?

In honey bees

1. Males are haploid.
2. Workers are sterile and diploid.
3. Queen develops from diploid larvae that fed on royal jelly.
4. Honey is collected/made by males.

Select the correct answer using the code given below :

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

90. The Amarkantak Hills is the source of which of the following rivers ?

1. Narmada
2. Mahanadi
3. Tapti
4. Son

Select the correct answer using the code given below :

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

91. Which of the following statements in the context of northern hemisphere is/are correct ?

1. Vernal equinox occurs on March 21.
2. Summer solstice occurs on December 22.
3. Autumnal equinox occurs on September 23.
4. Winter solstice occurs on June 21.

Select the correct answer using the code given below :

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

92. A glass vessel is filled with water to the rim and a lid is fixed to it tightly. Then it is left inside a freezer for hours. What is expected to happen ?

- (a) The water freezes to ice and the level of ice comes down
- (b) The water in the glass vessel simply freezes to ice
- (c) The glass vessel breaks due to expansion as water freezes to ice
- (d) The water does not freeze at all

93. A simple circuit contains a 12 V battery and a bulb having 24 ohm resistance. When you turn on the switch, the ammeter connected in the circuit would read

- (a) 0.5 A
- (b) 2 A
- (c) 4 A
- (d) 5 A

94. Three resistors with magnitudes 2, 4 and 8 ohm are connected in parallel. The equivalent resistance of the system would be

- (a) less than 2 ohm
- (b) more than 2 ohm but less than 4 ohm
- (c) 4 ohm
- (d) 14 ohm

95. Suppose you have four test tubes labelled as 'A', 'B', 'C' and 'D'. 'A' contains plain water, 'B' contains solution of an alkali, 'C' contains solution of an acid, and 'D' contains solution of sodium chloride. Which one of these solutions will turn phenolphthalein solution pink ?

- (a) Solution 'A'
- (b) Solution 'B'
- (c) Solution 'C'
- (d) Solution 'D'

96. Which one of the following oxides dissolves in water ?

- (a) CuO
- (b) Al_2O_3
- (c) Fe_2O_3
- (d) Na_2O

97. To prevent heart problems, blood of a normal healthy person should have

- 1. low cholesterol level.
- 2. high HDL level.
- 3. high VLDL level.
- 4. high LDL level.

Select the correct answer using the code given below :

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

98. Spruce and Cedar are tree varieties of

- (a) Equatorial forest
- (b) Temperate coniferous forest
- (c) Monsoon forest
- (d) Temperate deciduous forest

99. 'Sal' tree is a

- (a) Tropical evergreen tree
- (b) Tropical semi-evergreen tree
- (c) Dry deciduous tree
- (d) Moist deciduous tree

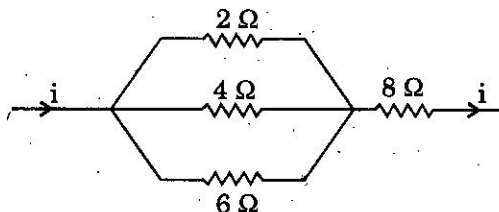
100. Matter around us can exist in three different states, namely, solid, liquid and gas. The correct order of their compressibility is

- (a) Liquid < Gas < Solid
- (b) Solid < Liquid < Gas
- (c) Gas < Liquid < Solid
- (d) Solid < Gas < Liquid

101. The temperature at which a solid melts to become a liquid at the atmospheric pressure is called its melting point. The melting point of a solid is an indication of

- (a) strength of the intermolecular forces of attraction
- (b) strength of the intermolecular forces of repulsion
- (c) molecular mass
- (d) molecular size

102. Consider the following circuit :



The equivalent resistance of the circuit will be

- (a) $12\ \Omega$
- (b) $8\frac{11}{12}\ \Omega$
- (c) $9\frac{1}{11}\ \Omega$
- (d) $\frac{24}{25}\ \Omega$

103. Which one of the following elements will *not* react with dilute HCl to produce H_2 ?

- (a) Hg
- (b) Al
- (c) Mg
- (d) Fe

104. Which of the following pairs of vector and disease is/are correctly matched ?

	Vector	Disease
1.	Anopheles	: Malaria
2.	<i>Aedes aegypti</i>	: Chikungunya
3.	Tsetse fly	: Filariasis
4.	Bed bugs	: Sleeping sickness

Select the correct answer using the code given below :

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

105. Consider the following statements :

- 1. All Echinoderms are not marine.
- 2. Sponges are exclusively marine.
- 3. Insects are found in all kinds of habitats.
- 4. Many primates are arboreal.

Which of the statements given above is/are correct ?

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

106. Areas which are engines for economic growth supported by quality infrastructure and complemented by an attractive fiscal package are known as

- (a) Export Processing Zones
- (b) Duty Free Tariff Zones
- (c) Special Economic Zones
- (d) Technology Parks

107. Deserts, fertile plains and moderately forested mountains are the characteristic features of which one of the following regions of India ?

- (a) South-Western border along Arabian Sea
- (b) Coromandel Coast
- (c) North-Eastern Frontier
- (d) North-Western India

108. A racing car accelerates on a straight road from rest to a speed of 50 m/s in 25 s. Assuming uniform acceleration of the car throughout, the distance covered in this time will be

- (a) 625 m
- (b) 1250 m
- (c) 2500 m
- (d) 50 m

109. A man weighing 70 kg is coming down in a lift. If the cable of the lift breaks suddenly, the weight of the man would become

- (a) 70 kg
- (b) 35 kg
- (c) 140 kg
- (d) Zero

110. A given conductor carrying a current of 1 A produces an amount of heat equal to 2000 J. If the current through the conductor is doubled, the amount of heat produced will be

- (a) 2000 J
- (b) 4000 J
- (c) 8000 J
- (d) 1000 J

111. Which one of the following carbon compounds will **not** give a sooty flame ?

- (a) Benzene
- (b) Hexane
- (c) Naphthalene
- (d) Anthracene

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

<i>List I</i> (Molecule)	<i>List II</i> (Product of digestion)
A. Proteins	1. Nitrogenous bases and pentose sugars
B. Carbohydrates	2. Fatty acids and glycerol
C. Nucleic acids	3. Monosaccharides
D. Lipids	4. Amino acids

Code :

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

113. In Thar region, the shifting sand dunes are locally known as

- (a) Dhrian
- (b) Dours
- (c) Dhoros
- (d) Dhaya

114. The impulse on a particle due to a force acting on it during a given time interval is equal to the change in its

- (a) force
- (b) momentum
- (c) work done
- (d) energy

115. Which one of the following statements with regard to expansion of materials due to heating is **not** correct ?

- (a) As ice melts, it expands uniformly up to 4°C.
- (b) Mercury thermometer works using the principle of expansion due to heating.
- (c) Small gap is kept between two rails to allow for expansion due to heating.
- (d) The length of metallic wire increases when its temperature is increased.

116. Which of the following pairs is/are correctly matched ?

(National Park) (Famous for)

1. Ranthambhore : Tiger
2. Periyar : Elephant
3. Manas : Lion
4. Gir : Rhinoceros

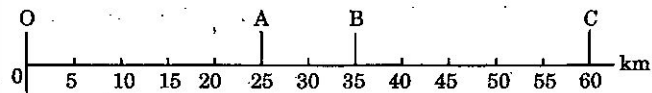
Select the correct answer using the code given below :

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

117. Which one of the following is *not* a form of stored energy ?

- (a) Nuclear energy
- (b) Potential energy
- (c) Electrical energy
- (d) Chemical energy

118. The motion of a car along a straight path is shown by the following figure :



The car starts from O and reaches at A, B and C at different instants of time. During its motion from O to C and back to B, the distance covered and the magnitude of the displacement are, respectively

- (a) 25 km and 60 km
- (b) 95 km and 35 km
- (c) 60 km and 25 km
- (d) 85 km and 35 km

119. Jelep La pass is located in

- (a) Punjab Himalaya
- (b) Sikkim Himalaya
- (c) Kumaon Himalaya
- (d) Kashmir Himalaya

120. What is the number of mole(s) of $H_2(g)$ required to saturate one mole benzene ?

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

121. Which one of the following pairs of the Schedule in the Constitution of India and its Content is *not* correctly matched ?

- | <i>Schedule</i> | <i>Content</i> |
|---|----------------|
| (a) Eighth Schedule : Languages | |
| (b) Second Schedule : The forms of oaths and affirmations | |
| (c) Fourth Schedule : Allocation of seats in the Council of States | |
| (d) Tenth Schedule : Provisions as to disqualification on the ground of defection | |

122. Consider the following statements :

1. The Constitution of India empowers the Parliament to form new States and to alter the areas, boundaries or names of existing States by passing a resolution in simple majority.
2. Jammu and Kashmir has been given special status under Article 370 of the Constitution 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

123. The Speaker of the Lok Sabha may resign his office by writing, addressed to the

- (a) President of India
- (b) Prime Minister of India
- (c) Vice President of India
- (d) Deputy Speaker of the Lok Sabha

124. Who among the following is the founder of the 'Bachpan Bachao Andolan' ?

- (a) Shantha Sinha
- (b) Kailash Satyarthi
- (c) Aruna Roy
- (d) Anil Agarwal

125. Which of the following are the features of Pradhan Mantri Jan Dhan Yojana ?

1. Ensuring financial inclusion of the poor
2. Enhancing financial literacy
3. Provision for accidental insurance to account holders
4. Allowing bank accounts with zero balance

Select the correct answer using the code given below :

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

126. The Election Commission recognizes a political party as a national party if

1. it secures at least six percent of the total valid votes polled in four or more States in a general election to the Lok Sabha or to the State Legislative Assemblies.
2. it wins at least four seats in a general election to the Lok Sabha from any State or States.

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

127. Which one of the following is *not* a feature of the Nehru-Mahalanobis model of development strategy ?

- (a) Development of capital goods industries
- (b) Major involvement of the State in the economy
- (c) Industrial deregulation and disinvestment in the public sector
- (d) Enhancing the scope and importance of the public sector

128. Which of the following best explains the stated broad vision and aspirations of the Twelfth Five Year Plan (2012 – 2017) ?

- (a) Faster, Sustainable and More Inclusive Growth
- (b) Modernisation of Industries and Strengthening Infrastructure
- (c) Enhancing Agricultural and Rural Incomes
- (d) Checking Inflation and Strengthening non-economic variables like Nutritional Requirements, Health and Family Planning

129. *Nabhah Spr̥śam Dīptam* is the motto of

- (a) Central Industrial Security Force
- (b) Indian Air Force
- (c) ISRO
- (d) Indian Navy

130. Consider the following statements :

1. The Amendment procedure has been provided in Article 368 of the Constitution of India.
2. The consent of the States is mandatory for all Amendments to the Constitution 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

131. Which of the following statements relating to the Comptroller and Auditor General (CAG) of India is/are correct ?

1. The CAG can attend the sittings of the Committee on Public Accounts.
2. The CAG can attend the sittings of Lok Sabha and Rajya Sabha.
3. The jurisdiction of CAG is co-extensive with powers of the Union Government.

Select the correct answer using the code given below :

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

132. Which of the following statements relating to election as the President of India is/are correct ?

1. A person above the age of thirty-five years is eligible for election as the President of India.
2. The President of India is eligible for re-election for more than one term.
3. A person is not eligible for election as the President of India if the person holds an office of profit.

Select the correct answer using the code given below :

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

133. Which one of the following nations adopted its first democratic Constitution in September 2015 ?

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

134. Who among the following was defeated by Novak Djokovic in the final of the US Open Tennis Tournament Men's Singles event (2015) ?

- (a) Tommy Robredo
- (b) Fabio Fognini
- (c) Roger Federer
- (d) Pablo Cuevas

135. The citizens of India do *not* have which one of the following Fundamental Rights ?

- (a) Right to reside and settle in any part of India
- (b) Right to acquire, hold and dispose of property
- (c) Right to practice any profession
- (d) Right to form co-operative societies

136. Which one among the following Acts for the first time allowed Indians, at least theoretically, entry to higher posts in British Indian administration ?

- (a) Charter Act, 1813
- (b) Charter Act, 1833
- (c) Charles Wood's Education Despatch, 1854
- (d) Indian Councils Act, 1861

137. Consider the following statements about Rashtrakuta kings :

1. They were ardent patrons of Shaivism and did not support other forms of religion.
2. They promoted only Sanskrit scholars and gave them large 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

138. After a ban on unscientific coal mining and transportation of coal in this region by the National Green Tribunal, many of those engaged in the activity have been switching to turmeric farming for their livelihood. The region referred above is

- (a) Jaintia Hills, Meghalaya
- (b) Koriya, Chhattisgarh
- (c) Angul, Odisha
- (d) Bardhaman, West Bengal

139. Which of the following statements about the first act of the Revolt of 1857 is/are true ?

1. It occurred in Meerut when two sepoys stole a superior officer's rifle.
2. It began when the Rani of Jhansi declared war on the British.
3. It began when Mangal Pandey fired at a European officer in Meerut.
4. It began when Mangal Pandey fired at a European officer in Barrackpore.

Select the correct answer using the code given below :

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

140. Which of the following statements about Gandhiji's *Hind Swaraj* written in 1909 is/are true ?

1. *Hind Swaraj* offers a civilizational concept of the Indian nation.
2. *Hind Swaraj* states that Parliamentary democracy was necessary for the amelioration of the sufferings of Indians.
3. *Hind Swaraj* argues that Industrial capitalism was responsible for the immorality of society.

Select the correct answer using the code given below :

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

141. Division of labour often involves

1. specialized economic activity.
2. highly distinct productive roles.
3. involving everyone in many of the same activities.
4. individuals engage in only a single activity and are dependent on others to meet their various needs.

Select the correct answer using the code given below :

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

142. Who among the following is/was associated with 'Maharashtra Andhashraddha Nirmoolan Samiti'?

- (a) Chandi Prasad Bhatt
- (b) Narendra Dabholkar
- (c) G.D. Agrawal
- (d) Kailash Satyarthi

143. Consider the following statements :

- 1. Warren Hastings set up the Calcutta Madrassa for the study and teaching of Muslim law related subjects.
- 2. Jonathan Duncan started a Sanskrit College at Varanasi for the study of Hindu law and philosophy.

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

144. Consider the following statements about Sufism in India :

- 1. Pilgrimage called *ziyarat* to tombs of Sufi saints is an important feature.
- 2. The most influential group of Sufis in India were the Chishtis.

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. Which of the following thinkers and movements influenced the development of Gandhiji's political ideas?

- 1. Henry David Thoreau
- 2. John Ruskin
- 3. John Milton
- 4. Jainism

Select the correct answer using the code given below :

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

146. Consider the following statements :

- 1. The *Arthashastra* is the first Indian text to define a State.
- 2. The main concerns of the *Arthashastra* are theoretical issues like the origins of the state.

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

147. Which of the following is/are **not** FDI policy change(s) after 2010 ?

1. Permission of 100 percent FDI in automotive sector
2. Permitting foreign airlines to make FDI up to 49 percent
3. Permission of up to 51 percent FDI under the government approval route in multi-brand retailing, subject to specified conditions
4. Amendment of policy on FDI in single-brand product retail trading for aligning with global practices

Select the correct answer using the code given below :

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

148. Which of the following is/are the component/components of the Integrated Power Development Scheme launched by the Government of India recently ?

1. Strengthening of sub-transmission and distribution networks in the urban areas
2. Metering of distribution transformers/ feeders/consumers in the rural 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

149. Which of the following statements about Brahmo Samaj is/are correct ?

1. The Brahmo Marriage Act of 1872 allowed inter-caste and widow re-marriage only if the contracting parties declared themselves to be non-Hindus.
2. Keshub Chandra Sen arranged the marriage of his minor daughter with the Maharaja of Burdwan.
3. Keshub Chandra Sen's followers broke away to form the Naba Brahmo Samaj.
4. The Brahmo Samaj grew from a small elite group to a mass movement in the 19th century.

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, 3 and 4

150. Which of the following statements about the aims of the United Nations is/are true ?

1. To foster a mutual appreciation of each others' culture and literature among nations
2. To achieve international co-operation in solving problems of an economic, social, cultural, or humanitarian character
3. To foster relations between scholars and academics in different countries
4. To organize international conferences

Select the correct answer using the code given below :

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