MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

Time : 3 hours  Max. Marks : 200  

Instructions for candidates:-

1. This exam is in two parts.
2. Part-I is related to Mental Ability Test.
3. Part-II relates to Scholastic Aptitude Test. It consists of nine subjects, details of which are given below:-
   i) Physics  
   ii) Chemistry  
   iii) Biology  
   iv) Mathematics  
   v) History  
   vi) Geography  
   vii) Civics  
   viii) Economics  
   ix) English
4. Each question carries one mark. All questions are compulsory.
5. You have been provided with a answer sheet (OMR) for this question paper. Darken the correct option of each question in the answer sheet (OMR) with black/blue ink.
6. Rough work may be done on the blank space provided.
7. There is no negative marking in this question paper.
8. Do not use white fluid on OMR Answer Sheet.

Mental Ability Test:

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2. Part-I is related to Mental Ability Test.
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   i) Physics  
   ii) Chemistry  
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   ix) English

Scholastic Aptitude Test:

1. This exam is in two parts.
2. Part-I is related to Mental Ability Test.
3. Part-II relates to Scholastic Aptitude Test. It consists of nine subjects, details of which are given below:-
   i) Physics  
   ii) Chemistry  
   iii) Biology  
   iv) Mathematics  
   v) History  
   vi) Geography  
   vii) Civics  
   viii) Economics  
   ix) English

Please refer to the exam instructions for details on how to fill in the answer sheet.
Rough Work / खेप देख
Mental Ability

Directions (Q. 1-6) There is a number series following a Pattern. One place is left blank. Find the correct answer from the options.

1. 42, 48, 60, 66, 78, ?
   1) 68  2) 93  3) 101  4) 104

2. \( \frac{2}{\sqrt{5}} , \frac{4}{5} , \frac{5}{\sqrt{5}} , \frac{5}{25} , ? \)
   1) \( \frac{6}{5\sqrt{5}} \)  2) \( \frac{6}{25} \)  3) \( \frac{3}{5} \)  4) \( \frac{4}{25\sqrt{5}} \)

3. 15, 31, 64, 131, 2
   1) 266  2) 256  3) 192  4) 524

4. In a certain code language "HEALTH" is written as GSKZDG, then how will "North" be written in that code?
   1) OPSUI  2) GSKQM  3) FRPML  4) IUSPO

5. In a certain code language if 'SIR' is written as 'PSPIR', then 'MAN' can be written as
   1) PMANP  2) PMPAPN  3) MANP  4) MPANP

6. Arrange the following words according to dictionary arrangement
   a) Eagle  b) Earth  c) Eager  d) Early  e) Each
   1) a, c, b, d, e  2) b, a, d, c, e  3) b, c, d, e, a  4) e, c, a, d, b

Directions (Q. 7-8) The letters given below follow a definite pattern. Find out the missing letters to complete the pattern.

7. ba_cb_b-bab
   1) cabb  2) acbb  3) bcac  4) baac

8. ab_baa_ab
   1) baabb  2) aabab  3) aaaaa  4) aabaa

Directions (Q. 9) Select the combination of numbers so that the letters arranged accordingly will form a meaningful word

D 1 2 3 4 5 6
1 2 3 4 5 6
1 4, 3, 6, 2, 5 2) 6, 4, 3, 5, 2, 1
3) 3, 5, 2, 4, 6, 1 4) 5, 4, 3, 2, 6, 1

Directions (Q. 10) The code words are followed by four sets of numbers. Choose the set in which the codes are logically related.

1) 42, 48, 60, 66, 78?
   1) 68  2) 93  3) 101  4) 104

2. \( \frac{2}{\sqrt{5}} , \frac{3}{5} , \frac{4}{5\sqrt{5}} , \frac{5}{25} , ? \)
   1) \( \frac{6}{5\sqrt{5}} \)  2) \( \frac{6}{25} \)  3) \( \frac{3}{5} \)  4) \( \frac{4}{25\sqrt{5}} \)

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D 1 2 3 4 5 6
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3) 3, 5, 2, 4, 6, 1 4) 5, 4, 3, 2, 6, 1

National Talent Search Examination- 2016, Class-X
भारतीय शैक्षिक बीमा विभाग-2016, भारत लंदन
Direction: In the questions (10-11): some symbols have been given different meanings Read them properly and answer the questions with accurate options.

1. 6Δ3<5+4<22Δ6 2) 6<3Δ5=4Δ2<6
2) 8+4>5+4+2Δ6 4) 6+3>5+4+2Δ6
3) 2<4<6+3<2 2) 2Δ4<5+6<3<2
3) 2<4<6+3<2 2) 2Δ4<5+6<3<2
4) 2<4<6+3<2 2) 2Δ4<5+6<3<2

10. (1) 6Δ3<5+4<22Δ6 2) 6<3Δ5=4Δ2<6
3) 8+4>5+4+2Δ6 4) 6+3>5+4+2Δ6
11. (1) 2<4<6+3<2 2) 2Δ4<5+6<3<2
3) 2<4<6+3<2 2) 2Δ4<5+6<3<2
4) 2<4<6+3<2 2) 2Δ4<5+6<3<2

12. Some students are sitting in row. B is sitting on the extreme left of the row, K is sitting between V and R, V is sitting next to M, M is sitting next to B and Q is sitting next to R, who are sitting adjacent to V?
1) Q and K 2) R and Q
3) M and K 4) K and R

13. Which figure represents sparrows, Birds and Mice?
(1) (2) (3) (4)

14. Find the urban, corrupt employee in the following diagram:

Rural People
Employee
Urban People
Corrupt People

(1) 11 (2) 9 (3) 7 (4) 12

15. A is taller than B but shorter than C, D is taller than A but shorter than C, E is taller than D but shorter than A. Who is the tallest among them?
1) D 2) C 3) B 4) A

Directions (Q : 16-19) What will come in place of question mark (?)

16. 44 64 100
34 49 169
54 81 ?
1) 81 2) 144 3) 225 4) 64
18. Which of the following words cannot be made from the letters given in question?
DETERMINATION
1) MINT 2) TEAM 3) TAMMED 4) NORTH

Directions (Q 21-23) There are five persons P, O, R, S and T. One is football player, one is chess player and one is hockey player. P and S are unmarried ladies and do not Participate in any game. None of the ladies plays chess or football. There is a married couple in which T is the husband. Q is the brother of R and is neither a chess player nor a hockey player.

21. Who is the Football player?
1) P 2) Q 3) R 4) S

22. Who is the wife of T?
1) P 2) Q 3) R 4) S

23. Who is the hockey Player?
1) P 2) Q 3) R 4) S

24. Sunny Walked 6 metres facing towards East, then took a right turn and walked a distance of 9 metres. He then took a left turn and walked a distance of 6 metres. How far is he from the starting point?
1) 15 metres 2) 21 metres 3) 18 metres 4) 14 metres

25. A walks 5 metres towards east, then turns south and
walks 10 metres, then turns back and walks 20 metres, now he turns left and walks 5 metres. where is he from the starting point and in which direction?
1) 20 metres due north
2) 10 metres due north
3) 10 metres due South
4) 15 metres due north East

26. Pointing to a man in the photograph, a women says, “He is the son of my sister's mother's husband.” How is the man related to the woman?
1) Father
2) Grand Father
3) Uncle
4) Brother

27. Which colour will come at the opposite of red colour?
1) Blue
2) Black
3) White
4) Yellow

28. Which number will come at the bottom of last cube?

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<td>3</td>
<td>6</td>
<td>4</td>
<td>1</td>
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</table>

29. Which of the Following will come in place of the question mark (?) in the following sequence?
6C7, 8F10, 11J14, 15O19, ?
1) 25U20
2) 20U25
3) 20U24
4) 19U25

30. ADG, GJM, MPS,?
1) SVW
2) SVY
3) SUW
4) SWY

31. A person is to climb up a tree 60 feet high. In every second, he climbs 5 feet, but slips 4 feet. After how many seconds, he will be able to touch the top of the tree.
1) 60
2) 59
3) 58
4) 56

Direction (Q. 32-34) questions are based on the sum of multiplication. Solve it and answer the serial number for correct option.

\[
\begin{array}{ccccc}
A & B & C & D & E \\
\times & & & & 4 \\
E & D & C & B & A
\end{array}
\]

32. Value of A is?
1) 7
2) 2
3) 8
4) 4

33. Value of B is?
1) 9
2) 8
3) 1
4) 6

34. Value of C is?
1) 2
2) 3
3) 4
4) 6

35. Value of D is?
1) 6
2) 5
3) 4
4) 3

36. Value of E is?
1) 7
2) 8
3) 9
4) 10

37. A person is to climb up a tree 60 feet high. In every second, he climbs 5 feet, but slips 4 feet. After how many seconds, he will be able to touch the top of the tree.
1) 60
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3) 58
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\]

32. Value of A is?
1) 7
2) 2
3) 8
4) 4

33. Value of B is?
1) 9
2) 8
3) 1
4) 6

34. Value of C is?
1) 2
2) 3
3) 4
4) 6

35. Value of D is?
1) 6
2) 5
3) 4
4) 3

36. Value of E is?
1) 7
2) 8
3) 9
4) 10
35. How many Cubes have no face Painted?
1) 27  2) 32
3) 36  4) 40

36. How many cubes have only one face Painted?
1) 9  2) 45
3) 57  4) 62

37. How many cubes have only two faces Painted?
1) 0  2) 16
3) 20  4) 24

38. Ramesh and Santosh are ranked Eighth and Twelfth respectively from the top in a class of 42 students. What will be their respective ranks from the bottom?
1) 34 and 30  2) 31 and 35
3) 36 and 32  4) 35 and 31

39. How many such 5's are there in the following number sequence each of which is immediately preceded by 3 or 4 but not immediately followed by 8 or 9?
3 5 9 5 4 5 5 3 5 8 4 5 6 7 3 5 7 5 5 4 5 2 3 5 1 0
1) Two  2) Three
3) Four  4) Five

40. Arrange the following properly and choose the proper combination of sequence from given 4 options.

- a. Diwali  b. Independence day  c. Christmas  d. Republic day  e. Holi
1) 1, 3, 5, 2, 4  2) 4, 5, 2, 1, 3
3) 2, 4, 1, 5, 3  4) 4, 5, 1, 2, 3

41. Which figure can be fitted to figure 'x' so that it may become a complete square?

42. Figure 'x' is hidden in which of the given four figures?

43. Value of D is
1) 3  2) 4  3) 5  4) 7

Direction (Q. 35-37) Some equal cubes are arranged in the form of a block as shown in figure. All the visible surfaces of the block except the bottom are Painted.
43. Which figure among 1, 2, 3, 4 will replace the question mark according to series?

**QUESTION FIGURE**

![Figure 1](image1.png) ![Figure 2](image2.png) ![Figure 3](image3.png) ![Figure 4](image4.png)

**ANSWER FIGURE**

![Figure 5](image5.png) ![Figure 6](image6.png) ![Figure 7](image7.png) ![Figure 8](image8.png)

44. Find the two figures in the following which are out of position and require inter changing of position to put the entire serial in order.

1) 2 and 3  2) 2 and 4  3) 1 and 5  4) 4 and 5

45. In Problem figure two dots are placed. This figure is followed by four answer fig., only one figure among them fulfilling the same conditions as in problem fig.

**PROBLEM FIGURE**

![Figure 9](image9.png)

**ANSWER FIGURE**

![Figure 10](image10.png) ![Figure 11](image11.png) ![Figure 12](image12.png) ![Figure 13](image13.png)

Directions (Q. 46 and 47) In each of the following questions there is a relationship between two figures on the left side of the sign ::. The same relationsh ip exists between the two, to the right side of sign ::, find the correct alternative.

46. QUESTION FIGURES:

![Figure 14](image14.png) ![Figure 15](image15.png) ![Figure 16](image16.png) ![Figure 17](image17.png)

**ANSWER FIGURES:**

![Figure 18](image18.png) ![Figure 19](image19.png) ![Figure 20](image20.png) ![Figure 21](image21.png)

47. QUESTION FIGURES:

![Figure 22](image22.png) ![Figure 23](image23.png) ![Figure 24](image24.png) ![Figure 25](image25.png)

**ANSWER FIGURES:**

![Figure 26](image26.png) ![Figure 27](image27.png) ![Figure 28](image28.png) ![Figure 29](image29.png)

48. Find the mirror image of figure 'x'  

![Figure 30](image30.png) ![Figure 31](image31.png) ![Figure 32](image32.png) ![Figure 33](image33.png)

49. Find the water image of figure 'x'  

![Figure 34](image34.png) ![Figure 35](image35.png) ![Figure 36](image36.png) ![Figure 37](image37.png)

50. A square transparent paper with a pattern is given. Find out from amongst the four alternative figures which would belike the one when the paper is folded at dotted line.

![Figure 38](image38.png) ![Figure 39](image39.png) ![Figure 40](image40.png) ![Figure 41](image41.png)
51. A satellite having circular orbit about the earth has a kinetic energy $E_k$. What is the minimum amount of energy to be added so that it escapes from the earth.

1) $\frac{E_k}{4}$  
2) $\frac{E_k}{2}$  
3) $E_k$  
4) $2E_k$

52. If power dissipated in the 9Ω resistor in the circuit is 36 watt. The potential difference across the 2Ω resistor is -

1) 4 volt  
2) 8 volt  
3) 10 volt  
4) 2 volt

53. A ball is released from the top of a tower of height $h$ meter. It takes $T$ seconds to reach the ground. What is the position of the ball at $T/3$ second?

1) $\frac{h}{9}$ m from ground  
2) $\frac{7h}{9}$ m from the ground  
3) $\frac{8h}{9}$ m from ground  
4) $\frac{17h}{9}$ m from the ground

54. A particle undergoes uniform circular motion. About which point on the plane of the circle will the angular momentum of the particle remain conserved.

1) Centre of the circle  
2) On the circumference of the circle  
3) Inside the circle  
4) Outside the circle

55. A body has mass 100 kg. What work has to be done to increase its velocity from 2 m/s to 6 m/s.

1) 100 J  
2) 200 J  
3) 1600 J  
4) 600 J

56. 1 dioptre is the power of a lens whose focal length is

1) 2 m  
2) 1 m  
3) 3 m  
4) 1.5 m
57. The essential difference between AC generator and DC generator is:
   1) DC generator will generate a higher voltage
   2) AC generator will generate a higher voltage
   3) AC generator has slip rings while DC generator has a commutator.
   4) AC generator has electric magnet where as DC generator has permanent magnet.

58. A bullet of mass 60 gm moving with the velocity of 500 m/s is brought to rest in 0.01 sec. Its impulse will be:
   1) 40 NS  
   2) -30 NS
   3) -20 NS  
   4) +30 NS

59. The radioactive decay of Uranium into Thorium is represented by equation:
\[ ^{238}U \rightarrow ^{234}Th + x \]
What will be x
1) electron  
2) proton
3) alpha particle  
4) neutron

60. Two bobs of masses 1 kg and 2 kg are suspended from a rigid support by threads of length 4 m and 1 m respectively. Find the ratio of their time period.
   1) 4  
   2) 8
   3) 2  
   4) 12

61. An electron and proton enter a magnetic field with equal velocities. Which one of them experiences more force.
1) electron  
2) proton
3) It cannot be predicted  
4) Both experiences same force

62. Where should an object be placed in front of convex lens to get a real image of the same size of the object
   1) At the principal focus of the lens
   2) At twice the focal length
   3) At infinity
   4) Between optical centre of the lens and its principal focus

63. The value of 45°c temperature in Fahrenheit will be
   1) 118°F  
   2) 113°F
   3) 120°F  
   4) 115°F

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   1) 118°F  
   2) 113°F
   3) 120°F  
   4) 115°F
CHEMISTRY

64. You are given a solution of AgNO₃, which of the following do you think cannot displace, Ag from AgNO₃ solution.
1) Magnesium 2) Zinc
3) Gold 4) Copper

65. The atomic number of four elements A, B, C, D are 6, 8, 10, 12 respectively. The two elements which can react to form an ionic bond are:
1) A and D 2) B and C
3) A and C 4) B and D

66. Out of the following pair of compounds the unsaturated compounds are:
1) C₃H₄ and C₂H₆ 2) C₆H₆ and C₄H₁₀
3) C₃H₄ and C₂H₆ 4) C₄H₁₀ and C₆H₆

67. Which of following set of elements is written in order of their increasing metallic character:
1) Mg, Al, Si 2) C, O, N
3) Na, Li, K 4) Be, Mg, Ca

68. Which of the following statements are correct about properties of colloids -
a) A colloid is a Homogeneous mixture
b) The size of particles of a colloid is too small to be individually seen by naked eye.
c) Colloids are big enough to scatter a beam of light passing through it & make its path visible.
1) a, b, c are correct 2) b and c are correct
3) a and b are correct 4) a and c are correct

69. Assertion (A)
When we dip Iron nail into CuSO₄ Solution the colour of solutions changes.
Reason (R): Copper is less reactive than iron.
1) Both A and R are correct but R is not correct reason for A
2) Both A and R are correct, R is correct reason for A.
3) A is correct and R is incorrect.
4) A is incorrect and R is correct.

64. When AgNO₃ (AgNO₃) is mixed with a solution of NaCl, which of the following do you think cannot displace, Ag from AgNO₃ solution.
1) Magnesium 2) Zinc
3) Gold 4) Copper

65. The atomic number of four elements A, B, C, D are 6, 8, 10, 12 respectively. The two elements which can react to form an ionic bond are:
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3) A and C 4) B and D

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3) A is correct and R is incorrect.
4) A is incorrect and R is correct.
70. Arrange the Li, Be, B, C, N elements according to increasing order of atomic radii.
1) N < C < B < Be < Li
2) C < Li < N < Be < B
3) Li < Be < B < C < N
4) B < Be < Li < C < N

71. Elements A, B, C having positions in periodic table

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<tr>
<th>Group 16</th>
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<tbody>
<tr>
<td>A</td>
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<td>B</td>
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a) A is a metal
b) C is smaller in size as compared to B
c) Element A gives negativity charged ion
1) a, b and c are correct
2) only b and c are correct
3) only b is correct
4) a and c are correct

72. Which of the following is having maximum double bonds?
1) Propanone
2) Benzene
3) Propene
4) Propanol

73. Carbon atom in graphite is combined with how many other carbon atoms?
1) 1
2) 2
3) 3
4) 4

74. A solution contains 58.5 gm of common salt in 360 gm of water calculate the total number of protons in solution.

\[ \begin{align*} 
1) & \ 21 \times 6.023 \times 10^{21} \\
2) & \ 22.8 \times 6.023 \times 10^{21} \\
3) & \ 200 \times 6.023 \times 10^{21} \\
4) & \ 228 \times 6.023 \times 10^{21} 
\end{align*} \]

75. A solution of calcium hydroxide is used for white washing walls. After two to three days of white washing, walls start shining due to formation of compound.
1) CaO
2) CaCO₃
3) CaSO₄
4) Ca(HCO₃)₂

76. Which mass of O₂ (Oxygen molecule) will contain the same number of molecules as 2.5 moles of Cl₂.
1) 180 gm
2) 100 gm
3) 71 gm
4) 80 mg

77. Li, Be, B, C, N तंत्र में नामांकन के बाध्यताएं में बोझोरे युग अनुसार ताया उठाने की वजहें हो?
1) N < C < B < Be < Li
2) C < Li < N < Be < B
3) Li < Be < B < C < N
4) B < Be < Li < C < N

71. आपकी समस्या विभिन्न विषय जैसे A, B में C की रिश्ती जैसे विंश के अंक नहीं।

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<tr>
<td>B</td>
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a) A चित्रज पाता है।
b) B में C एसी मजबूत (एडवर्ड विशेष) इंडेक्स है।
c) वेंड A विनट विचारित एकता दिया है।
1) a, b अभी 8 ठीक घठना।
2) सेवड B अभी 8 ठीक घठना।
3) सेवड B ठीक घठना।
4) a अभी 8 ठीक घठना।

72. उक्त विद्युत विभिन्न विषय द्वारा विभिन्न विषय में दो रंग दूसरे बांट हुए उपाय।
1) पूनार्थक
2) वेषजीवता
3) पूनार्थक
4) पूनार्थिक

73. वैज्ञानिक विभिन्न विषय वर्गानुसार विभिन्न विषय में दो रंग दूसरे बांट हुए उपाय।
1) 1
2) 2
3) 3
4) 4

74. हिस्से विभिन्न विषय 58.5 ग्राम प्रमाण मात्र 360 ग्राम प्रति विभिन्न पूरी शुल्क है। हिस्से प्रभाव पूर्ण हो दो रंग आकार दिली घड़ी?

\[ \begin{align*} 
1) & \ 21 \times 6.023 \times 10^{21} \\
2) & \ 22.8 \times 6.023 \times 10^{21} \\
3) & \ 200 \times 6.023 \times 10^{21} \\
4) & \ 228 \times 6.023 \times 10^{21} 
\end{align*} \]

75. वैज्ञानिक उपकरण क्रियाशीलता के बाद बांट लीटरों के मजबूत जीवों की तीव्रता है। इसे ले विभिन्न विषय वर्गानुसार घड़ी जैसे विभिन्न पूरी शुल्क है। हिस्से विभिन्न पूरी शुल्क है बांट बांट उपाय?
1) CaO
2) CaCO₃
3) CaSO₄
4) Ca(HCO₃)₂

76. लो (अंकात्मक अनुपात) द्वारा विभिन्न विषय 2.5 हेक्टेक्टर (H₂) के वर्गानुसार उसके लायक?

\[ \begin{align*} 
1) & \ 180 \text{ ग्राम} \\
2) & \ 100 \text{ ग्राम} \\
3) & \ 71 \text{ ग्राम} \\
4) & \ 80 \text{ ग्राम} 
\end{align*} \]
BIOLOGY

77. Which one of the following statement is true -
1) In humans there are two pairs of sex chromosome.
2) A child who inherits an X chromosome from father will be a girl.
3) A child who inherits an Y chromosome from father will be a girl.
4) A child who inherits an X chromosome from father will be a girl.

78. The Pancreas secretes Pancreatic Juice which contains________ enzyme for digesting proteins.
1) Lipase  2) Amylase  3) Zymase  4) Trypsin

79. Involuntary actions including blood pressure, salivation and vomiting are controlled by-
1) Cerebellum  2) Pons  3) Cerebrum  4) Medulla

80. The correct pathway of blood in circulatory system is-
1) Auricles → ventricles → Arteries → Veins
2) Ventricles → Auricles → Veins → Arteries
3) Veins → Ventricles → Arteries → Auricles
4) Veins → Ventricles → Arteries → Auricles

81. Heart muscle cells are -
1) Round, unbranched, uninucleate
2) Non cylindrical, branched and uninucleate
3) Cylindrical, unbranched and multi nucleate
4) Cylindrical, branched and uninucleate

82. Which of the following is the correct features of 'Lymph'
1. It is similar to the plasma of blood, colourless and contains less protein.
2. Similar to the WBC of blood, colourless and contain more protein.
3. Similar to the RBC of blood and red in colour.
4. It contains more fat.
83. Match the item in column-I with those in column-II and select the correct choice.

<table>
<thead>
<tr>
<th>Column-I</th>
<th>Column-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Food Chain</td>
<td>1 Elephant</td>
</tr>
<tr>
<td>B Food Web</td>
<td>2 Jackal</td>
</tr>
<tr>
<td>C Herbivore</td>
<td>3 Soles of organism taking on one another</td>
</tr>
<tr>
<td>D Carnivore</td>
<td>4 Inter linked food chain</td>
</tr>
</tbody>
</table>

1) A-3 B-4 C-1 D-2
2) A-2 B-1 C-3 D-4
3) A-1 B-2 C-3 D-4
4) A-4 B-3 C-2 D-1

84. Which of the following is not a part of the female reproductive system in human beings.
1) Ovary
2) Uterus
3) Vas deferens
4) Fallopian tube

85. ______ smoothens bone surface at joints and is also present in the nose, ear, trachea & larynx.
1) Tendons
2) Ligament
3) Areolar tissues
4) Cartilage

86. Which of the following plant group bear naked seeds and usually perennial, evergreen and woody are.
1) Pteridophyta
2) Gymnosperms
3) Bryophyta
4) Angiosperms

87. The site for complete digestion of carbohydrates, proteins and fats is-
1) Large intestine
2) Stomach
3) Small Intestine
4) Mouth

88. Which of the following are characteristic features of cells of Meristematic tissues -
1) Actively dividing cells with dense cytoplasm, thick cell wall and prominent nuclei.
2) Actively dividing cells with dense cytoplasm, thin cell wall and no vacuoles.
3) Actively dividing cells with little cytoplasm, thin cell wall and prominent nuclei.
4) Actively dividing cells with thin cytoplasm, thin cell wall and no vacuoles.

89. Potato and runners of grass is an example of-
1) Homologous organs
2) Analogous organs
3) Vestigial organs
4) Atavism

90. Which of the following are sensitive to sulphur dioxide
1) Algae
2) Lichens
3) Mosses
4) Ferns

89. In a food chain A and B are adjacent to each other. What are the interdependence of A and B?

<table>
<thead>
<tr>
<th>Column-I</th>
<th>Column-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Brown field</td>
<td>1 Ophioglyphe</td>
</tr>
<tr>
<td>B Krill</td>
<td>2 Shrimp</td>
</tr>
<tr>
<td>C Propagating</td>
<td>3 Mangrove trees</td>
</tr>
<tr>
<td>D Ranching</td>
<td>4 Dung beetle</td>
</tr>
</tbody>
</table>

1) A-3 B-4 C-1 D-2
2) A-2 B-1 C-3 D-4
3) A-1 B-2 C-3 D-4
4) A-4 B-3 C-2 D-1
MATHEMATICS

91. If \( \frac{37}{13} = 2 + \frac{1}{x+y+z} \),

Where \( x, y, z \) are integers, then the value of \( x+y+z \)
is
1) 6
2) 8
3) 7
4) -2

92. If \( \sin x = \cos^2 x \), then the value of \( \cos^2 x (1 + \cos x) \) will be
1) 1
2) 0
3) 2
4) -1

93. If \( a \) and \( b \) are roots of \( ax^2 + bx + c = 0 \) and the quadratic equation whose roots are \( 2a - \frac{1}{b} \) and \( 2b - \frac{1}{a} \) is \( px^2 + qx + r = 0 \) then \( p + q + r \) is equal to
1) 2b
2) 6a - 8b
3) 6b - 8a
4) 0

94. If \( S_n \) denotes the sum of first \( n \) terms of an A.P., then the value of \( S_2 - S_n + (S_n - S_{2n}) \) will be
1) \( S_n \)
2) \( nd \)
3) 0
4) \( S_n - S_{2n} \)

95. Two dice are thrown at the same time and product of numbers appearing on them is noted. Probability that the product is less than 9 will be
1) \( \frac{1}{36} \)
2) \( \frac{4}{9} \)
3) \( \frac{17}{36} \)
4) \( \frac{2}{9} \)

96. If Arithmetic mean of numbers \( x_1, x_2, x_3, \ldots, x_n \), is \( X \) than Arithmetic mean of numbers \( ax_1+b, ax_2+b, \ldots, ax_n+b \), where \( a \) and \( b \) are constants, will be
1) \( X \)
2) \( naX+nb \)
3) \( aX \)
4) \( aX+b \)

97. The average score of boys in class X in an exam is 71 and that of the girls in that class is 73. If the average score of class X in that exam is 71.8 find the ratio of number of boys to number of girls in that class.
1) 1:2
2) 2:1
3) 2:3
4) 3:2

98. The altitude of an equilateral triangle is \( p \text{ cm} \). The area of this triangle is
1) \( \frac{\sqrt{3}}{4} p^2 \text{ cm}^2 \)
2) \( \frac{3}{4} p^2 \text{ cm}^2 \)
3) \( \frac{3}{5} p^2 \text{ cm}^2 \)
4) \( \frac{3}{4} p^2 \text{ cm}^2 \)

99. The sum of all two digit natural numbers which are divisible by 7 is
1) 743
2) 700
3) 728
4) 735

91. \( \sin x = \cos^2 x \), \( \cos x \) and \( \sin x \) are integers, then the value of \( x+y+z \) is
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3) 7
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99. The sum of all two digit natural numbers which are divisible by 7 is
1) 743
2) 700
3) 728
4) 735
100. The difference between two numbers is 1365. When the larger number is divided by the smaller number, the quotient is 6 and remainder is 15. Find the smaller number.

1) 240    2) 270
3) 295    4) 300

101. If 75% of a number is added to 75, then the result is number itself. The number is

1) 50    2) 60
3) 300    4) 400

102. Find the product of

\[ \sqrt[3]{3}, \sqrt[4]{3}, \sqrt[12]{243} \]


103. The sum of the ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of youngest child?

1) 4 years    2) 8 years
3) 10 years    4) 12 years

104. Which of the following trains is the fastest?

1) 25 m/sec    2) 1500 m/min
3) 90 km/sec    4) 100 km/sec

105. If \( y = 5 \), then what is the value of \( 10y - y^2 \)?

1) 50 \( \sqrt{2} \) 2) 100 3) 200 \( \sqrt{5} \) 4) 500

106. The mean of \( 1, 2, 3, 4, 5, 6, 7 \), is

1) 10    2) 20
3) 30    4) 40

107. Simplify

\[ \sqrt{3} + \frac{4}{\sqrt{64}} + \frac{4}{\sqrt{2500}} + \frac{\sqrt{8}}{12} \]

1) \[\sqrt{3} + \frac{4}{\sqrt{64}} + \frac{4}{\sqrt{2500}} + \frac{\sqrt{8}}{12}\] 2) \[\sqrt{3} + \frac{4}{\sqrt{64}} + \frac{4}{\sqrt{2500}} + \frac{\sqrt{8}}{12}\] 3) \[\sqrt{3} + \frac{4}{\sqrt{64}} + \frac{4}{\sqrt{2500}} + \frac{\sqrt{8}}{12}\] 4) \[\sqrt{3} + \frac{4}{\sqrt{64}} + \frac{4}{\sqrt{2500}} + \frac{\sqrt{8}}{12}\]

108. AD is bisector of \( \angle A \) of \( \triangle ABC \), which meets side \( BC \) at \( D \). If \( BC = K \text{ cm} \), \( CA = l \text{ cm} \), and \( AB = m \text{ cm} \), then the length of \( DC \) (in cm) is

1) \( \frac{K}{m+l} \) 2) \( \frac{K(m+l)}{l} \) 3) \( \frac{Km}{m+l} \) 4) \( \frac{K(m+l)}{m} \)

109. If area of a sector of circle bounded by an arc of length \( 5\text{ cm} \) is equal to \( 20\text{ cm}^2 \) then its radius (in cm) is

1) \( 12\text{ cm} \) 2) \( 16\text{ cm} \) 3) \( 8\text{ cm} \) 4) \( 10\text{ cm} \)

110. In right angled triangle \( \triangle ABC \), \( \angle B = 90^\circ \), \( AB = 5\text{ cm} \), \( BC = 12\text{ cm} \), then the area of circle in circle of this triangle \( \triangle ABC \) will be-

1) \( 4\pi \text{ cm}^2 \) 2) \( 2\pi \text{ cm}^2 \) 3) \( 12\pi \text{ cm}^2 \) 4) \( 17\pi \text{ cm}^2 \)
111. Why was the Vietnam war called the first television war?
1) Brought home stories from soldiers
2) Led to increase sale of television sets
3) Battle scenes were shown on daily news
4) Television was invented.

112. Who said these lines "whether I am a Hindu, a Mohammedan, a Parsi, a Christian or of any other creed, I am above all an Indian. Our nationality is Indian."
1) Dada Bhai Naoroji
2) Surendranath Banerjee
3) Gopal Krishna Gokhale
4) Phirozeshah Mehta

113. Under which rules the sculpture of four lions was built on Samarth's Pillar?
1) Samudragupta
2) Ashoka
3) Chandragupta
4) Harshvardhana

114. Who was the first Viceroy of India?
1) Lord Clive
2) Warren Hastings
3) Lord William Bentinck
4) Lord Canning

115. To whom, Guru Gobind Singh Ji had written Zafarnama?
1) Babur
2) Aurangzeb
3) Humayun
4) Jahangir

116. During India’s freedom struggle which one of the following led to the first ‘All India Hartal’?
1) Protest against Jallianwala Bagh Massacre
2) Protest against Row Latt Act
3) Trial of Mahatma Gandhi
4) Arrival of Simon Commission

117. In 1878 the Vernacular Press Act was modelled on the-
1) French Press Laws
2) British Press Laws
3) Irish Press Laws
4) Scottish Press Laws

118. Who was the famous Sultan of Lodhi Dynasty?
1) Sikander Lodhi
2) Ibrahim Lodhi
3) Dilawar Khan Lodhi
4) Daulat Khan Lodhi

119. When was Nazi Party founded?
1) 1917
2) 1918
3) 1920
4) 1909

120. Who had started Masand system?
1) Guru Har Rai Ji
2) Guru Angad Dev Ji
3) Guru Nanak Dev Ji
4) Guru Ramdas Ji

121. “Who said these words, 'Tremble, therefore, tyrants of the world'?”
1) Robert Darnton
2) James Lackington
3) Louise Sebastien Mercier
4) Thomas Paine

111. विदेशशरीर पूर्व पुरुषों की प्रान्तवाहिक रूप से विदेश निवास करते हैं?
1) प्राचीन भारतीय भाषाओं के सुन्दर प्रतीति निवासकारी पुरुषों
2) राष्ट्रीय प्राचीन रूप से पुरुष निवासकारी पुरुषों
3) ब्रिटिश भाषाओं से निवासकारी पुरुषों
4) राष्ट्रीय प्राचीन रूप से निवासकारी पुरुषों

112. किसने कहा कि ‘इसलिए मैं हिन्दु, मुस्लिम, पर्सी, चर्चित या कोई भी अन्य धर्म, मेरा स्व-पतिति में इस्लाम करता हूँ।’
1) राजा प्रकाश नारोजी
2) सुरेन्द्रनाथ बनर्जी
3) गोपाल किशोर गोक्लाल
4) फिरोजेश्लाह मेहता

113. जब कोई भी त्रिच्यंत्र रहेंगे तो हमें देखें और अनाथ करें?
1) हिंदू
2) गुरु विजय
3) हिंदू
4) समुद्र विजय

114. कब भारतीय हस्तियों की संईक्षण बंद की?
1) बाबू बाहाना नारोजी
2) बर्तन लोकाधिकार
3) हिंदू विजयवर्धन
4) राष्ट्रीय विजयवर्धन

115. समस्त भारत सम्म नई हमें देख लें तो हमें देखें?
1) ब्रिटिश
2) अंग्रेजी
3) समीप
4) समीप

116. जब मेरे नाम भारत का हरीदौला 'पश्चिमी सज्जा उत्तरी एकादश' देख करता हूँ?
1) अंग्रेजी भाषा ज्ञानकोश से विदेश विचार.
2) हिंदी भाषा ज्ञानकोश से विदेश विचार.
3) अंग्रेजी भाषा विदेशी चारण विदेशी प्रतीति से विदेश विचार.
4) समीप भाषा विदेशी चारण विदेशी प्रतीति से विदेश विचार.

117. 1878 में यह क्या हुआ?
1) डिफेंस पुल बांदेर
2) स्पेनिश पुल बांदेर
3) विदेशी पुल बांदेर
4) समीप भाषा विदेशी प्रतीति

118. हिंदी भाषा का स्व-पतिति निवासकारी प्रतीति है?
1) हिंदी भाषा निवासकारी
2) हिंदी भाषा निवासकारी
3) हिंदी भाषा निवासकारी
4) हिंदी भाषा निवासकारी

119. हिंदी भाषा का स्व-पतिति निवासकारी प्रतीति?
1) 1917
2) 1918
3) 1920
4) 1909

120. जब भारत पुरुष भाषा प्रमाणन स्व-पतिति मे मेरे पति करता है?
1) गुरु विजय कारी
2) गुरु संग्रह विजय
3) गुरु विजय कारी
4) गुरु विजय कारी

121. क्या हिंदी भाषा के बाद, उस संस्कृत स्व-पतिति, उस उपक्रम का उत्पादन कर उत्साह नहीं दिखाता?
1) विकेट्स बांदेर
2) हिंदी भाषा विदेशी
3) हिंदी भाषा विदेशी
4) हिंदी भाषा विदेशी
122. Which among the following does not belong to the list of leading sugarcane producing states?
   1) Uttar Pradesh  2) Andhra Pradesh  3) Madhya Pradesh  4) Maharashtra

123. In which Union Territory maximum area is under forest?
   1) Dadra and Nagar Haveli  2) Andaman and Nicobar Islands  3) Delhi  4) Puducherry

124. Which agent causes the formation of V-shaped valley?
   1) snow  2) wind  3) birds and animals  4) water

125. What type of soil is also known as ‘Tea soil’?
   1) mountain soil  2) marshy soil  3) desert soil  4) saline and alkaline soil

126. Which of the following state has the highest density of roads?
   1) Goa  2) Jammu and Kashmir  3) Kerala  4) Haryana

127. What is the extent of ‘Tropical Heat Zone’?
   1) 23½° North to 23½° South  2) 23½° North to 66½° North  3) 23½° South to 66½° South  4) 66½° North to 66½° South

128. For which of the following industry, ‘Dhariwal’ is famous as an important centre/place?

129. Which of the major port of India is located in Sundarbans Delta?
   1) Kandla  2) Mumbai  3) Chennai  4) Haldia
130. Which of the following place is influenced by retreating or eastern monsoon?
   1) Amritsar  2) Chennai  3) Mumbai  4) Shimla

131. Which of the following states are the major products of copper?
   1) Rajasthan and Madhya Pradesh  2) Odisha and Rajasthan  3) Maharashtra and Gujarat  4) Madhya Pradesh and Gujarat

132. Hyderabad is the capital of which state?
   1) Telangana  2) Andhra Pradesh  3) Karnataka  4) Tamilnadu
133. Who give the idea to establish the 'Lok Adalat'?
   1) Sh. P.N. Bhagwati
   2) Dr. B.R. Ambedkar
   3) Sh. Lal Bahadur Shastri
   4) Dr. T.N. Sheshan

134. Which words were included in preamble of Indian constitution by 42nd amendment in 1976 -
   1) Directive Principles
   2) Democratic and Republic
   3) We the people of India
   4) Socialist, secular and unity of country

135. Which fundamental right is considered as the 'Pillar of Democracy'.
   1) Right to equality
   2) Right to religious freedom
   3) Right to freedom
   4) Right to constitutional remedies

136. How many members does Punjab send for Lok Sabha and Rajya Sabha -
   1) Lok Sabha - 13  Rajya Sabha - 7
   2) Lok Sabha - 7  Rajya Sabha - 13
   3) Lok Sabha - 117 Rajya Sabha - 245
   4) Lok Sabha - 545 Rajya Sabha - 12

137. Which rights are not given to foreigners?
   1) Economic Rights
   2) Social Rights
   3) Political Rights
   4) Civil Rights

138. Who is the chairman of the Rajya Sabha?
   1) Speaker
   2) Vice-President
   3) President
   4) Prime-Minister

139. Who can transfer a Governor from one state to another?
   1) Prime-Minister
   2) Parliament
   3) President
   4) Supreme Court
140. Which Indian Leader gave the idea of two nations (partition) before independence?
1) Mahatma Gandhi  2) Jawahar Lal Nehru

141. How many countries are the member of U.N.O. (United Nations) at present?
1) 193          2) 150
3) 51           4) 182

142. India opposes strongly -
1) United Nations
2) World peace
3) Racialism and Apartheid policy
4) Common Wealth of Nations
143. Which equation is true?

1) Real Wages = \( \frac{\text{Price Index}}{\text{Money Wages}} \times 100 \)

2) Real Wages = \( \frac{\text{Money Wages}}{\text{Price Index}} \times 100 \)

3) Real Wages = \( \frac{\text{Money Wages} \times \text{Price Index}}{100} \)

4) Real Wages = \( \frac{\text{Money Wages}}{\text{Price Index}} \)

144. Economic activities are not related to:

1) Production, consumption and work of Housewife.

2) Production, consumption and exchange.

3) Production, exchange and distribution.

4) Consumption, exchange and distribution.

145. Socialist Economy has features:

A) Govt. Control

B) Collective ownership

C) Competition

D) Freedom of market forces

E) Social welfare

Which one is true:

1) A, B and C

2) A, B and D

3) A, B and E

4) B, C and D

146. On the basis of ownership types of Economics are:

1) Developed, mixed & capitalistic.

2) Capitalistic, developed and socialistic.

3) Mixed, developed and under developed.

4) Socialistic, capitalistic and mixed.

147. In India which one is not indicator of level of economic development:

1) Per capita income

2) Expectation of life

3) Population

4) Literacy rate

143. विभिन्न मानकिक ठीक है?

1) अक्ष मात्राएँ = \( \frac{\text{मध्य संख्या}}{\text{अधिक संख्या}} \times 100 \)

2) अक्ष मात्राएँ = \( \frac{\text{मध्य संख्या}}{\text{वास्तविक मात्रा}} \times 100 \)

3) अक्ष मात्राएँ = \( \frac{\text{वास्तविक मात्रा} \times \text{संख्या}}{100} \)

4) अक्ष मात्राएँ = \( \frac{\text{वास्तविक मात्रा}}{\text{मध्य संख्या}} \)

144. विज्ञान शैक्षणिक तत्त्विक आधारित रूप से विकास रहती हैं:

1) इंस्युबांग, भाज्य भाज बुलदेश और बंबई.

2) इंस्युबांग, भाज्य भाज बंबई.

3) इंस्युबांग, बल्डेश भाज बंबई.

4) भाज, बंबई भाज बंबई.

145. सामाजिक संगठन के अनुसार विभिन्न विकास का तत्त्व:

A) सरकार क्षेत्र

B) समूही भूमिका

C) अधिकारी भूमिका

D) तत्त्विक संगठन उत्पादन के लिए पूर्ण मूल्य

E) सामाजिक लक्ष्य

कितने विभिन्न विकास का तत्त्व हैं:

1) A, B and C

2) A, B and D

3) A, B and E

4) B, C and D

146. भाजी भाजन्य अनुसार विभिन्न सामाजिक तत्त्व:

A) विवरण, विवरण अर्के गुणसमूह

B) गुणसमूह, विवरण अर्के गुणसमूह

C) विवरण, विवरण अर्के गुणसमूह

D) गुणसमूह, विवरण अर्के गुणसमूह करके विकास

147. भाजन परिप्रेक्ष्य विभिन्न सामाजिक विवरण जैसे लाभ के मुद्दे हैं?

1) घरी विभिन्न भाजकर्ता

2) पाबंदी भेंट भरत

3) सामाजिकरण

4) भाजन परिप्रेक्ष्य
148. How many banks were nationalised by Govt. of India in 1980?

1) 12  
2) 14  
3) 7  
4) 8

149. Which of the following organisations looks after the credit needs of Agriculture and Rural Development in India?

1) FCI  
2) IDBI  
3) NABARD  
4) ICAR

150. When there is investment made in the form of education, training and medical care the population becomes:

1) working capital  
2) human capital  
3) fixed capital  
4) capital growth
Q. (151-154) Read the comprehension passage carefully and answer the following questions-
There are over a quarter of a million plant species. Only 600 or so are carnivorous who call, attract and eat bugs. They live in bogs and places where the soil lacks nutrients. Pitcher plants trick their prey into landing on them. Sundews sparkle in the Sun but they are more treacherous. They create mucilage to attract bugs. As they fly in to eat, bugs become trapped in the object of their desire as their tentacles respond to the prey by curling around them. Bugs die in about 15 minutes and are then dissolved by these plants in their enzymes. Corkscrew plants have inviting stems. Curved hairs, line the inside of the stems that allow insects to go up the stems, but not back. Bugs who wander into the corkscrew plant find that they are unable to escape. Bladderworts are plants that live in water. Their traps are like small bladders hidden beneath the water that sucks up the prey and the water surrounding it.
Carnivorous plants have a hard time adapting to other environments that shows that they thrive in delicate environment which makes them not so hardy after all.

1. Which statement does the author most likely agree with?
   1) There are too many species of carnivorous plants.
   2) There are a few plant species in the world.
   3) Only a small number of plants are carnivorous.
   4) A majority of plants are carnivorous.

2. Which plants traps bugs in its stem and forces them to walk forward?
   1) Corkscrew plants
   2) Sundews
   3) Bladderworts
   4) Pitcher plants

3. Which event happens last when Sundews eats a meal?
   1) The Sundews create mucilage.
   2) The Sundews’s tentacles curl in response to the prey.
   3) The bug is attracted to the mucilage.
   4) The Sundews releases enzymes.

4. Which best defines the word treacherous?
   1) Something that provides nutrients.
   2) Something that is very bright.

3) Something that tastes delicious.
4) Something that has a hidden danger.

Q. (155-158) Read the comprehension passage carefully and answer the following questions:
In 1848, gold was found in California. Thousands of people rushed there to get some. Many people liked living there and decided to stay. At that time there was no train line. In 1860 and 1861, the Pony Express was the fastest way to get news to and from the West. It could make the trip in just ten days. The Pony Express had 184 stations along the trail. The stations were around ten miles apart. This is about how far a horse could run at a gallop before tiring. The rider would switch to a new horse at each station and before resting he would give his mail pouch to a new rider. The mail never stopped moving, even while the horses and riders rested. Each rider had to weigh less than 125 pounds. Speed was the key. Most of the riders were teenage boys who rode at a fast pace for upto 100 miles a day. If there was an emergency one might have to ride 200 miles in a day. In its time running, the Pony Express only lost one mail pouch. The Pony Express played an important role for a time but it did not last.

155. Which best explains why Pony riders had to weigh less than 125 pounds?
   1) Heavier men were more expensive.
   2) Horses were scared of heavier men.
   3) Heavier men scared customers.
   4) Horses could make quicker with lighter men.

156. How fast could the Pony Express take a letter from California to Massoorie?
   1) 24 hours
   2) Ten days
   3) Twenty days
   4) One month

157. About how far did Pony Express riders travel on a usual day?
   1) 10 miles
   2) 200 miles
   3) 100 miles
   4) 2000 miles

158. How many pouches did the Pony Express lose?
   1) Never lost a pouch
   2) One
   3) Two
   4) Too many to keep track
Q. (159-162) Read the following passage and answer the questions based on it.

Nehru was a many sided personality. He enjoyed reading and writing books as much as he enjoyed fighting political and social evils or residing tyranny. In him, the scientist and the humanist were held in perfect balance. While he kept looking at special problems from a scientific stand point, he never forgot that we should nourish the total man. As a scientist, he refused to believe in benevolent power interested in men’s affairs. But, as a self proclaimed non-believer, he loved affirming his faith in life and the beauty of nature. Children he adored. Unlike Wordsworth, he did not see him trailing clouds of glory from the recent sojourn in heaven. He saw them as a blossoms of promise and renewal, they only hope for mankind.

159. Nehru thought that children- 
1) were trailing clouds of glory
2) held promise for a better future
3) were like flowers to be loved and admired
4) held no hope for mankind.

160. Nehru enjoyed -
1) reading and writing books
2) fighting political and social evils
3) resisting tyranny
4) doing all the above and much more

161. Which of the statements reflects Nehru's point of view?
1) Humanism is more important than science.
2) Science is supreme and humanism is subordinate to it.
3) Science and Humanism are equally important.
4) There is no ground between science and humanism.

162. A many sided personality means -
1) a complex personality
2) a secretive person
3) a person having varied interests
4) a capable person

Q. (163-166) Read the comprehension passage carefully and answer the following questions.

Tigers are the largest and most powerful of all the cat species. Despite all of the tiger’s strength, the future of the species is uncertain. It is estimated that at the start of the 20th century, there were over 1,00,000 tigers living in the wild whose number has dwindled to just over 3,000. Serious threats that tigers face come from Homo-sapiens better known as humans. Tigers are hunted for many reasons like their striped skin, which is worth $10,000 in the black market. Though the fur would be an incentive for poachers, other parts of tiger can fetch pretty penny. Some people in China and other Asian countries believe that tigers parts have healing properties. Traditional Chinese medicine calls for the use of tiger bones in some prescriptions. Tigers have also been hunted for the sake of thrill in a game. Humans have done considerable damage through the destruction of habitat. Over the past 100 years tigers have lost 93% of their historic range. A major obstacle to preserve tigers is the enormous amount of territory that each tiger requires. There is no way to preserve the wild tiger population without making large sacrifices.

163. Which of the following is not a reason in the paragraph explaining why tigers are hunted?
1) Because tiger's skin is worth a lot of money.
2) Because tiger's parts are used as medicine in some cultures.
3) Because some tigers attack local villagers.
4) Because tigers are hunted for enjoyment by some people.

164. Which number is closest to the estimation of the wild tiger population in 2003?
1) 3000
2) 1,00,000
3) 140
4) 30,000

165. Which best explains why tigers have lost so much of their habitat according to the text?
1) Because humans are afraid of tigers.
2) Because tiger’s skin is very valuable.
3) Because humans have changed the land.
4) Because tigers need so much space to survive.

166. Based on information in the text, which best explains why tigers are poached?
1) Poachers hunt tigers to protect their families from dangerous animals.
2) Poachers hunt tigers for medicine to cure sick family members.
3) Poachers hunt tigers to earn a large amount of money.
4) Poachers hunt tigers because they enjoy killing dangerous animals.

Q. (167-168) The following five sentences come from a
167. S1. While talking to a group, one should feel self-confident and courageous.
S2.
S3.
S4.
S5. It is like the ability to play golf.

P. It is not as difficult as most men imagine.
Q. One should also learn how to think calmly and clearly.
R: Nor is it a gift bestowed by providence on only a few.

Choose from the options given below:
1) RPQ 2) PQR 3) QPR 4) QRP

168. S1. Once king Shantanu met a fisher girl.
S2.
S3.
S4.
S5. King Shantanu did not agree to the condition.
P. The fisherman agreed to it on one condition that his daughter’s son should become the heir to the throne.
Q. He fell in love with the girl.
R: He went to fisherman to ask for her hand.

Choose from the options given below:
1) RPQ 2) PQR 3) QPR 4) QRP

Q. (169-170) The following questions have the second sentence missing. Choose the appropriate sentence from the given options to complete it.

169. A. In order to raise company profit, the employees worked hard.
B. __________
C. However they offer to work over time without any compensation.
1) They decided to raise the cost of raw material.
2) They decided to pay attention on quality.
3) They store and black market the manufactured items.
4) They demanded two additional increments.

170. A. Nothing comes out of nothing.
B. __________
C. A person who thinks that luck would favour him without lifting his finger even, is living in a fool’s paradise.
1) So, we should work hard.
2) Fate is supreme and everything can be gained by it.
3) So, we should sit idle and hope for the best.
4) We should not worry at all and pay attention only for our welfare.

Q. (171-180) Fill in the blanks with the most appropriate option from the given alternatives.
The economic________ has affected our sales tremendously.
1) Touch down 2) Show down 3) Slow Down 4) Crack Down

172. Now the management graduate can expect to have a _________ life in the city.
1) Menial 2) Tedious 3) Boring 4) prosperous

173. The village was _________ by the earthquake.
1) Dazed 2) Razed 3) Fused 4) Bemused

174. The committee decided to _________ a new member in the organization.
1) appoint 2) commit 3) detain 4) suggest

175. The teacher _________ his students.
1) survived 2) laughed 3) berated 4) shunted

176. The gypsies do not live _________ at a particular place.
1) broadly 2) willingly 3) voluntarily 4) permanently

177. She was remarkably _________ in singing and dancing.
1) conducive 2) cooperative 3) accomplished 4) fluctuating
178. **following all the instructions closely, he missed out an important guidelines.**

1) Instead of  
2) Inspite of  
3) Although  
4) Otherwise

179. Google is one of the most popular search engines, it is ______ by the internet users.

1) utilized  
2) examined  
3) effected  
4) flabbergasted

180. Her silence was taken as ______ agreement.

1) concluded  
2) aggravated  
3) tacit  
4) repeated

**Q. (181-185) Select the meaning of the underlined phrase/idiom:**

181. Being the head of a family, he finds it difficult to keep his head above water.

1) To take rest  
2) To work properly  
3) To avoid quarrel  
4) To survive easily

182. On the eve of inspection, everything was kept ________.

1) In random order  
2) In perfect order  
3) Carelessly  
4) Timely

183. Land has always been an ________ between two brothers.

1) Cause of quarrel  
2) Cause of happiness  
3) Cause of ill health  
4) Cause of contentment

184. Mohan had to look high and low before he could find his scooter key.

1) everywhere  
2) no where  
3) some where  
4) always

185. We kept our fingers crossed till the final results were declared.

1) felt scared  
2) kept praying  
3) kept hopeful  
4) waited anxiously

Q. (186-192) In the following passage, there are some numbered blanks. Fill in the blanks by selecting the most appropriate word for each blank from the given options:

The term “broadband” refers to telecommunication in which a wide band of frequency is ready to send (186) _______. It (187) _______ users to (188) _______ Internet at (189) _______ speed than traditional (190) _______. High-speed Internet allows users to (191) _______ data processing and high-speed (192) _______ technologies.

186. 1) Quotes  
2) signals  
3) alarms  
4) clues

187. 1) agrees  
2) disables  
3) allows  
4) instigates

188. 1) access  
2) digress  
3) regress  
4) supress

189. 1) lower  
2) higher  
3) regular  
4) normal

190. 1) keypads  
2) mouse  
3) monitor  
4) modems

191. 1) irregular  
2) advance  
3) optional  
4) general

192. 1) transferred  
2) transmission  
3) fundamental  
4) transcendentale

Q. (193-198) Choose the correct antonym from the options given below:

193. Abdicate

1) Join  
2) Search  
3) Abandon  
4) Advance

194. Rectify

1) Bear  
2) Correct  
3) Validate  
4) Destroy

195. Respite

1) Break  
2) Commencement  
3) Fatigue  
4) Continuation

196. Upheaval

1) Harmony  
2) Radical change  
3) Miracle  
4) Dynamic
197. Change the voice: -
He kept us waiting.
1) We had kept waiting by him.
2) We were kept waiting by him.
3) We had been kept waiting by him.
4) Were we kept waiting by him.

198. Who is laughing at the beggar?
1) By whom are the beggar being laughed at?
2) By whom is the beggar being laughed at?
3) Whom are the beggar being laughed at?
4) By whom were the beggar laughed at?

Q. (199-200)
199. Choose the synonym of the underlined word from the given options.
It is very difficult to retain all that you hear in the class.
1) keep 2) preserve
3) recall 4) conserve

200. The story is too fantastic to be credible.
1) false 2) readable
3) believable 4) praise worthy