**TIME: 4Hrs.**

**INSTRUCTIONS TO CANDIDATES**

Read the following instructions carefully before you open the question booklet.

1. Use blue/black ball point pen only. There is no negative marking.

2. Part I: MAT : 1 - 100 questions
   Part II: SAT : 101 - 200 questions

3. This test booklet contains 200 questions of one mark each. All the questions are compulsory.

4. Answer each question by darkening one correct alternative among the four choices on the OMR SHEET with blue/black ball point pen.

Example:

<table>
<thead>
<tr>
<th>Q. No.</th>
<th>Alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 2 3 4</td>
</tr>
</tbody>
</table>

Correct way:

<table>
<thead>
<tr>
<th>Q. No.</th>
<th>Alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>X 2 3 4</td>
</tr>
</tbody>
</table>

Wrong way:

<table>
<thead>
<tr>
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<th>Alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 2 3 4</td>
</tr>
</tbody>
</table>

Student must darken the right oval only after ensuring correct answer on OMR sheet.

5. Disparity in mentioning (OBC, SC, ST & PH) in application form and OMR sheet can make your candidature invalid.

6. Students are not allowed to scratch/alter/change out an answer once marked on OMR Sheet, by using white fluid/eraser/blade/tearing/wearing in any other form.

7. Separate sheet has been provided for rough work in this test booklet.

8. *Please handover the OMR sheet to the invigilator before leaving the Examination Hall.
   *Take all your question booklets with you.

9. Darken completely the ovals of your answers on OMR Sheet in the time limit allotted for that particular paper.

10. Your OMR sheet will be evaluated through electronic scanning process. Incomplete and incorrect entries may render your OMR sheet invalid.

11. Use of electronic gadgets, calculator, mobile etc. is strictly prohibited.

12. Total 1 hour extra time will be allotted to visually challenged candidate only.

---

**MAX. MARKS: 200**

<table>
<thead>
<tr>
<th>Q. No.</th>
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<tbody>
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Student must darken the right oval only after ensuring correct answer on OMR sheet.

5. *Appeal* for correction in the OMR Sheet in Exam Centre only.

6. Students are not allowed to scratch/alter/change out an answer once marked on OMR Sheet, by using white fluid/eraser/blade/tearing/wearing in any other form.

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**S/26 EOD/18—05—1A**
### PART – I

**MANTEL ABILITY TEST (MAT)**

(QUESTION NO. 01 - 100)

(प्रश्न संख्या 01 – 100)

<table>
<thead>
<tr>
<th>Q. No.</th>
<th>Description</th>
<th>Options</th>
<th>Solution</th>
</tr>
</thead>
</table>
| 1.     | If \( x + \frac{25}{x} = 10 \) then value of \( x^2 + \frac{50}{x^2} \) will be | 1. 29  
2. 25  
3. 24  
4. 27 | 2. 25 |
| 2.     | If \( x + y = 3 \) and \( x^2 + y^2 = 15 \) then value of \( (x - y)^2 \) will be | 1. 21  
2. 36  
3. 25  
4. 16 | 3. 25 |
| 3.     | If \( \frac{a}{3} = \frac{b}{5} = \frac{c}{7} \) then value of \( \frac{a+b+c}{b} \) will be | 1. 7  
2. 3  
3. 10  
4. 5 | 2. 3 |
| 4.     | The sum of two numbers is 25 and sum of their square is 425 then what will be their product. | 1. 200  
2. 300  
3. 100  
4. 400 | 4. 400 |
| 5.     | If \( 0.64 + a^2 = 64 \) then positive value of \( a \) will be | 1. 0.1  
2. 0.01  
3. 1.0  
4. 10 | 2. 0.01 |
| 6.     | Divisor is 30 times of Quotient and 4 times of Remainder, if quotient is 20 then Dividend will be. | 1. 1,200  
2. 12,150  
3. 10,000  
4. 600 | 4. 600 |
| 7.     | If \( 3^{2b} = 27 \) and \( 9^{a+b} = 3 \) then value of \( \frac{a}{b} \) will be | 1. \(-\frac{4}{3}\)  
2. \(\frac{5}{8}\)  
3. \(\frac{5}{6}\)  
4. \(\frac{6}{5}\) | \(\frac{5}{8}\) |
| 8.     | If \( \sqrt{17} + \sqrt{11} = \sqrt{11} + \sqrt{6} \) then value of \( \sqrt{x} \) will be | 1. \(\sqrt{11}\)  
2. 23  
3. \(\sqrt{6}\)  
4. 24 | 2. 23 |

---

\( a = \frac{1}{3} \)

\( o = 1 \)

\( \frac{5}{2} = \frac{10}{5} \)

\( 9 + y = 6 \)

\( 9 + y = 6 \)

\( 2y = 6y + 9 = 15 \)

**S/26 EOD/18-05-1B**

Page 2 of 32
9. If \( \sqrt{0.02 \times 0.2 \times a} = 0.2 \times 0.2 \times \sqrt{b} \) then value of \( \frac{a}{b} \) will be

| 1. 0.4 | 2. 0.2 |
| 3. 0.04 | 4. 0.02 |

10. If \( 7 - \sqrt{3} \) and \( 7 + \sqrt{3} \) are solution of a Quadratic Equation, The Quadratic Equation will be

\[ \begin{align*}
1. x^2 - 14x + 46 &= 0 \\
2. x^2 + 14x - 46 &= 0 \\
3. x^2 - 14x - 46 &= 0 \\
4. x^2 + 14x + 46 &= 0
\end{align*} \]

11. In a Triangle PQR if \( \angle Q = 3 \angle R = 2(\angle P + \angle R) \) then value of \( \angle Q \) will be

| 1. 110° | 2. 120° |
| 3. 40° | 4. 102° |

12. If \( p = \frac{x + 3}{q} \) then value of \( \frac{p^2 - q^2}{p^2 + q^2} \) will be

\[ \begin{align*}
1. \frac{6x}{x^2 - 9} & \quad 2. \frac{6x}{x^2 + 9} \\
3. \frac{12x}{x^2 - 9} & \quad 4. \frac{12x}{x^2 + 9}
\end{align*} \]

13. If perimeter of a square is same as that of a rectangle whose length is 24 m is double of its breadth then area of square will be

\[ \begin{align*}
1. 324 \text{ m}^2 & \quad 2. 342 \text{ m}^2 \\
3. 224 \text{ m}^2 & \quad 4. 330 \text{ m}^2
\end{align*} \]

14. If volumes of two cones are in ratio of \( 2 : 3 \) and their base radii are in ratio of \( 1 : 2 \) then what will be Ratio of their heights

\[ \begin{align*}
1. 8 : 3 & \quad 2. 3 : 2 \\
3. 4 : 3 & \quad 4. 2 : 3
\end{align*} \]

15. If \( 2^4 = 8^{-1} \) and \( 9^4 = 3^{4 - 6} \) then value of \( x + y \)

\[ \begin{align*}
1. 34 & \quad 2. 25 \\
3. 33 & \quad 4. 24
\end{align*} \]

16. If two numbers are such that their difference, their sum and their product are in Ratio \( 1:7:24 \) then product of the two number is

\[ \begin{align*}
1. 48 & \quad 2. 44 \\
3. 54 & \quad 4. 38
\end{align*} \]

17. The mean of the median, mode and Range of the observations 7, 6, 7, 9, 14, 9, 7, 15 is

\[ \begin{align*}
1. 8 & \quad 2. 2.9 \\
3. 10 & \quad 4. 7
\end{align*} \]

18. If \( \frac{2}{3} = \frac{1}{x} \) and \( \frac{3}{4} = \frac{1}{y} \) then value of \( x + y \)

\[ \begin{align*}
1. 34 & \quad 2. 25 \\
3. 33 & \quad 4. 24
\end{align*} \]

19. If \( \frac{7}{10} \) and \( \frac{2}{5} \) are two numbers such that their difference, their sum and their product are in Ratio \( 1:7:24 \) then product of the two number is

\[ \begin{align*}
1. 48 & \quad 2. 44 \\
3. 54 & \quad 4. 38
\end{align*} \]

20. If \( \frac{7}{10} \) and \( \frac{2}{5} \) are two numbers such that their difference, their sum and their product are in Ratio \( 1:7:24 \) then product of the two number is

\[ \begin{align*}
1. 48 & \quad 2. 44 \\
3. 54 & \quad 4. 38
\end{align*} \]
18. A person spends 80% of his income. With increase in the cost of living, his expenditure increased by \(37\frac{1}{2}\)\% and his income increases by \(16\frac{2}{3}\%\). His present percent saving is

- 1. \(10\frac{1}{5}\%\)
- 2. \(12\frac{1}{3}\%\)
- 3. \(5\frac{1}{3}\%\)
- 4. \(5\frac{5}{7}\%\)

19. The cost of five chairs and three table is \(3110\)\/. If cost of one chair is 210 less than cost of one table. What is the cost of two tables and two chairs?

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Table 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ₹1760</td>
<td>2. ₹1000</td>
</tr>
<tr>
<td>3. ₹1660</td>
<td>4. ₹1800</td>
</tr>
</tbody>
</table>

20. If \(5 = \frac{a}{1 + \frac{1}{1 + \frac{1}{6 + \frac{1}{2}}}}\) then value of 'a' will be

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Option 2</th>
<th>Option 3</th>
<th>Option 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 62</td>
<td>2. 61</td>
<td>3. 14</td>
<td>4. 15</td>
</tr>
</tbody>
</table>

21. If \(\frac{7}{8}\) of a number is 5 more than its \(\frac{5}{7}\). Nine times of Number will be

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Option 2</th>
<th>Option 3</th>
<th>Option 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 380</td>
<td>2. 208</td>
<td>3. 308</td>
<td>4. 280</td>
</tr>
</tbody>
</table>

22. If a cone of height 24cm and base 6cm melted and reshape into a sphere. Then what will be the total surface area of sphere?

<table>
<thead>
<tr>
<th>Sphere 1</th>
<th>Sphere 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. (36\pi \text{Sq cm})</td>
<td>2. (16\pi \text{Sq cm})</td>
</tr>
<tr>
<td>3. (144\pi \text{Sq cm})</td>
<td>4. (142\pi \text{Sq cm})</td>
</tr>
</tbody>
</table>

23. P and Q can do a piece of work in 10 days, Q and R can do same work in 15 days, R and P can do same work in 20 days. Then how many days R will complete it alone

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Option 2</th>
<th>Option 3</th>
<th>Option 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 115 days</td>
<td>2. 110 days</td>
<td>3. 130 days</td>
<td>4. 120 days</td>
</tr>
</tbody>
</table>

24. In the following which one is the smallest

\(\sqrt{3}, \sqrt{2}, \sqrt{2}, \sqrt{4}\)

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Option 2</th>
<th>Option 3</th>
<th>Option 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. (\sqrt{3})</td>
<td>2. (\sqrt{4})</td>
<td>3. (\sqrt{2})</td>
<td>4. (\sqrt{2})</td>
</tr>
</tbody>
</table>
25. If P denotes +, Q denotes -, R denotes x and S denotes +, which of the following statement is correct?
1. 36 R 4 S 8 Q 7 P 4 = 10
2. 16 R 12 P 49 S 7 Q 9 = 200
3. 32 S 8 R 9 = 160 Q 12 R 12
4. 8 R 8 P 8 S 8 Q 8 = 57

26. A vessel contains 60 Ltr. of milk, 12 liters of milk is taken out of it and is replaced by water. Then again from the mixture 12 liters are taken out and replaced by water.
Find the amount of milk left after the operation.
1. 28.4 Ltrs.
2. 21.6 Ltrs.
3. 36 Ltrs.
4. 38.4 Ltrs.

27. Select the one which is different from the other three responses.
1. 15 : 46
2. 12 : 37
3. 9 : 28
4. 8 : 33

28. In a row of boys A is 20th from left and B is 16th from right. Interchange their position, then A becomes 30th from left. How many boys are there in the row?
1. 46
2. 44
3. 45
4. 48

29. A 15 cm coloured cube is cut into 3 cm small cubes then how many cubes are formed which have only one face painted.
1. 54
2. 64
3. 44
4. 84

30. A father tells his son “I was three times of your present age when you were born” If the father’s present age is 48 years, how old was the boy 4 years ago
1. 24 years
2. 8 years
3. 12 years
4. 16 years

Direction (Q. 31 to 35) Find the missing term in the series given below.

31. 2, 12, 30, ?, 90, 120
1. 48
2. 56
3. 63
4. 72

32. 48, 72, 108, ?, 324
1. 112
2. 144
3. 176
4. 208

33. 10, 20, 30, 40, ?, 60
1. 45
2. 50
3. 55
4. 60

34. 2, 6, 12, 20, ?, 42
1. 30
2. 32
3. 34
4. 36

35. 1, 5, 9, 13, ?, 19
1. 11
2. 12
3. 13
4. 14

Direction (Q. 36 to 40) Find the missing term in the series given below.

36. 10, 20, 30, 40, ?, 60
1. 50
2. 55
3. 60
4. 65

37. 1, 3, 5, 7, ?, 11
1. 4
2. 5
3. 6
4. 7

38. 2, 4, 8, 16, ?, 64
1. 32
2. 16
3. 8
4. 4

39. 1, 3, 5, 7, ?, 11
1. 4
2. 5
3. 6
4. 7

40. 2, 4, 8, 16, ?, 64
1. 32
2. 16
3. 8
4. 4
32. 10, 100, 200, 310, ?
   1. 400
   2. 410
   3. 420
   4. 430

33. 0.5, 2, 4.5, 8, 12.5, ?
   1. 16
   2. 17
   3. 16.5
   4. 18

34. 109, 74, 46, 25, 11, ?
   1. 8
   2. 0
   3. 11
   4. 4

35. \[ \frac{4}{3} \times 11 \times 16 \]
   \[ \frac{1}{3} \times 7 \times 21 \times 31 \]
   1. 6
   2. 5
   3. 9
   4. 7

36. There are twelve dozen of apples in a basket. Two dozen are added later. Ten apples got spoil and are removed. The remaining are transferred equally into two baskets. How many are there in each?
   1. 168
   2. 158
   3. 79
   4. 89

37. At what time between 8 and 9 will the hands of a clock be together?
   1. 40 minutes past 8
   2. 43 minutes past 8
   3. 44 minutes past 8
   4. 45 minutes past 8

38. What is the value of A, B and C is the given matrix?

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>12</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. A = 13, B = 11, C = 9
2. A = 13, B = 9, C = 11
3. A = 9, B = 11, C = 13
4. A = 9, B = 13, C = 11

39. Simplified value of \[ \frac{7^{n+3} + 14 \times 7^{n+4}}{7^{n+3}} \]

|   | 98 | 2. 100 | 3. 99 | 4. 97 |

36. एक टॉकरी में 12 दर्जन सेब हैं। दो दर्जन सेब बाद में खाए गए। जिसमें से 10 सेब खराब थे उनको हटा दिया गया। यदि बचे हुए सेब को दो टॉकरी में बाँटा गया तो कितने सेब प्रत्येक टॉकरी में रखे गये?
   1. 168
   2. 158
   3. 79
   4. 89

37. 8 और 9 बजे के बीच किस समय घड़ी की दोनों सुड़ों एक साथ होगी?
   1. 8 बजकर 40 मिनट
   2. 8 बजकर 43 \( \frac{7}{11} \) मिनट
   3. 8 बजकर 43 \( \frac{8}{11} \) मिनट
   4. 8 बजकर 44 \( \frac{10}{11} \) मिनट

38. नीचे दिये गये मैट्रिक्स में A, B और C का मान बताओ?

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>12</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. A = 13, B = 11, C = 9
2. A = 13, B = 9, C = 11
3. A = 9, B = 11, C = 13
4. A = 9, B = 13, C = 11
40. If \( \tan x = 5 - \sqrt{3} \) then \( 22 \tan(90 - x) \) is equal to
1. \( 5 + \sqrt{3} \)
2. \( 2 - \sqrt{3} \)
3. \( 5 + \sqrt{3} \)
4. \( 13 + \sqrt{3} \)

41. If \( a = \frac{1}{2 - \sqrt{3}} \) and \( b = \frac{1}{2 + \sqrt{3}} \) then find the value of \( 7a^2 + 11ab - 7b^2 \)
1. \( \sqrt{11} + 3\sqrt{56} \)
2. \( 13 + 11\sqrt{56} \)
3. \( 11 + 5\sqrt{3} \)
4. \( 11 + 56\sqrt{3} \)

42. Two pipes A and B can fill a tank in 12 and 15 minutes respectively. A third pipe C can empty it in 10 minutes. How long will it take to fill the tank if all pipes are opened simultaneously?
1. 20 minutes
2. 30 minutes
3. 40 minutes
4. 25 minutes

43. A sum amounts to Rs. 800 at 3% per annum in a certain time but amount to Rs. 1000 at 5% per annum in the same time. Total sum and time are
1. Rs. 500, 20 years
2. Rs. 400, 20 years
3. Rs. 550, 20 years
4. Rs. 600, 10 years

44. If \( a \) and \( b \) are the roots of \( x^2 - 2x - 1 = 0 \) then value of \( a^3b + ab^3 \) is
1. -2
2. 2
3. \( \frac{1}{2} \)
4. 4

The pie chart above describes the characteristics of Indian visiting UK from various states during a given year. Answer the following questions given below. Assume that the age-wise distribution data applies to all states and that in the given year 1,00,000 Indian visited UK.
45. Number of visitors from Karnataka in the age group of 20-40 years

1. 20000
2. 18000
3. 12000
4. None of these

46. Number of visitors from Maharashtra below the age of 20 years.

1. 3000
2. 5000
3. 8000

47. How many visitors were below 20 years of age but were neither from Karnataka, nor Maharashtra or West Bengal?

1. 7000
2. 15000
3. 6000
4. 8000

48. The ratio of visitors from West Bengal below 20 years to visitors from Maharashtra above 40 years in

1. 1:3
2. 12:1
3. 3:4

49. Find the difference between visitors from West Bengal and Maharashtra in the age group of 20-40 years

1. 4000
2. 6000
3. 8000

50. The number of ways in which 6 students can be seated at a round table is

1. 720
2. 2160
3. 410
4. 350

51. What letter will come next in the following series?

ABCDEF G Z Y X W U V T B C D E F Y
X W V U C D E X W V R
1. A
2. V
3. B
4. Z

52. Among P, Q, R, S and T each secured different marks, Q scored higher than T only and P secured higher than S but lower than R. Who among them scored highest marks.

1. P
2. Q
3. R
4. T

Directions (Q. No. 53 to 56) : Study the following series carefully and answer the questions given below:

7M4P%JVK3@EW2Q©6TA*BZ15

51. इस श्रृंखला में अगला अक्षर कौन सा होगा?

52. प, Q, R, S तथा T ने परीक्षा में भिन्न-भिन्न अंक अर्जित किए। Q ने केवल T से ज्यादा और न P ने S से ज्यादा लेकिन R से कम अंक प्राप्त किए। इनमें से किस ने सबसे अधिक अंक प्राप्त किए?

निर्देश (50 से 53 तक) : दिए गए श्रृंखला को ध्यान पूर्वक पढ़े व निर्मलतिष्ठ प्रश्नो के उत्तर दें.

7M4P%JVK3@EW2Q©6TA*BZ15

$FU#9HN
53. Which of the following is the sixth to the left of nineteenth from the left end of the above arrangement?
   1. $      2. T
   3. W      4. 2

54. How many such consonents are there in the arrangement, each of which is immediately preceded by a symbol and immediately followed by 2 numbers?
   1. four
   2. One
   3. Two
   4. Three

55. If all the symbols are dropped from the above arrangement then which of the following will be twelfth from the right end?
   1. Q
   2. 6
   3. 2
   4. T

Directions (Q. No. 56 to 60) : Study the following information carefully to answer these questions.
Seven friends A, B, C, D, E, F & G perform in stage shows on a different day from Monday to Sunday not necessarily in the same order. Each one performs a different item viz Music, speech Dance, Mimicry, Play, Debate and monologue, not necessarily in the same order. B performs play on Thursday and E performs Music on Sunday. G performs mimicry but not on Tuesday or Saturday. C’s performance is on the next day of G’s performance. D performs on Monday but not the next day of G’s Performace. D performs on Monday but not Dance or Debate. A performs Monologue which is on the next day of speech. Dance is not performed on Saturday.

56. Who performs Dance?
   1. C
   2. F
   3. D
   4. A

57. Which item is performed by D and on what day?
   1. Mimicry – Monday
   2. Music – Tuesday
   3. Play – Wednesday
   4. Speech – Monday

58. A performs on which day of the week?
   1. Tuesday
   2. Wednesday
   3. Friday
   4. Saturday

59. The following information is given to answer these questions.

60. Which item will come immediately before speech?
   1. D
   2. E
   3. F
   4. A
59. G performs on which day of the week?
   1. Wednesday  
   2. Saturday  
   3. Tuesday  
   4. Friday

60. Who performs in debate?
   1. B  
   2. D  
   3. F  

Direction (Q. No. 61 to 63): The venn diagram given below is about a small town having population of 500 persons. The square represents persons from urban area, the circle represents working persons, the triangle represents women & the rectangle represents educated persons. Number written are number of persons.

<table>
<thead>
<tr>
<th>Edcated</th>
<th>Urban</th>
<th>Working</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>50</td>
<td>80</td>
<td>60</td>
</tr>
</tbody>
</table>

61. What is the number of non-working females?
   1. 167  
   2. 57   
   3. 17   
   4. 80

62. If urban population in 350, what is the number of non-educated non working urban women.
   1. 0    
   2. 9    
   3. 10   
   4. 20

63. What is the number of urban male who are educated but not working?
   1. 30   
   2. 40   
   3. 50   
   4. 110

64. In the matrix below, the numbers in the cells follow some rules. Identify the number which when substituted for (?) maintains the same rule.

| 7  | 12 | ?  |
| 21 | 27 | 35 |
| 7  | 14 | 23 |

1. 18   
2. 19   
3. 17   
4. 16
Direction: (Q. No. 65 to 67) In the table given below, there are two columns, column I & column II. Four words are written in column I. In Column II, Equivalent codes are used for these words. For each of the four words, four different patterns are used. Identify the pattern in the questions given below & choose the correct option.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Word</th>
<th>Code Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>A</td>
<td>CHAIR</td>
</tr>
<tr>
<td>2.</td>
<td>B</td>
<td>PHONE</td>
</tr>
<tr>
<td>3.</td>
<td>C</td>
<td>TROUPE</td>
</tr>
<tr>
<td>4.</td>
<td>D</td>
<td>TOURIST</td>
</tr>
</tbody>
</table>

65. If 'JUDGE' is coded as "MXGJH" the code pattern followed is Serial Number -
   1. A
   2. B
   3. C
   4. D

66. If 'EMPLOY' is coded as "AILHKU" the code pattern followed is Serial Number -
   1. A
   2. B
   3. C
   4. D

67. If 'JOURNAL' is coded as "QLFIMZQ" the code pattern followed is Serial Number -
   1. A
   2. B
   3. C
   4. D

Direction: (Q. No. 68 to 70) : Eight person A, B, C, D, E, F, G, H are sitting around a circular table facing the centre. B is sitting second to the left of G, Who is sitting third to the right of F. Only E is sitting between A & C. C is sitting third to the left of B. Only one person is sitting between E & H. Now answer the following questions.

68. Which of the following is the correct order of seating of persons to the right of A.
   1. ECHDGBK
   2. ECHFBGD
   3. EBHDCFG
   4. CHBEDGF

69. Who is sitting third to A on its left side.
   1. B
   2. H
   3. D
   4. F

70. Who is sitting exactly in front of A.
   1. B
   2. C
   3. H
   4. F
71. If % means + @ means – ^ means × v means +
Then the value of
42 ^ 7 v 8 @ 25 % 63 ^ 9 is–
1. -10 2. 14
3. -20 4. 30

72. Arrange the following words in the sequence in which they occur in the dictionary, then choose the correct option
(i) BHAGWAN (ii) BHAGWAT
(iii) BHAGIRATH (iv) BHAGAT
1. iv, i, iii, ii 2. iv, ii, i, iii
3. iv, iii, i, ii

73. R is the brother of S and M is the Father of R, J is brother of P & P is daughter of S.
What is the relation of P with M?

74. If Z = 52 and ACT = 48 then BAT is equal to
1. 39 2. 44 3. 48 4. 50

75. If 20 * 3 = 180 and 4 * 5 = 100 then value of
7 * 7 is
1. 21 2. 49 3. 343 4. 7

76. How many points will be on the face opposite to the face which contains two points.
1. 1 2. 4 3. 5 4. 6

77. How many minimum line segment required to draw the given figure?
1. 16 2. 17 3. 18 4. 19

78. If R is the brother of S and M is the Father of R, J is brother of P & P is daughter of S.
What is the relation of P with M?

79. If Z = 52 and ACT = 48 then BAT is equal to
1. 39 2. 44 3. 48 4. 50

80. If 20 * 3 = 180 and 4 * 5 = 100 then value of
7 * 7 is
1. 21 2. 49 3. 343 4. 7

81. How many points will be on the face opposite to the face which contains two points.
1. 1 2. 4 3. 5 4. 6

82. How many minimum line segment required to draw the given figure?
1. 16 2. 17 3. 18 4. 19
78. A piece of paper is folded as shown in the figure & then punched:

![Image]

Choose the correct option from the answer figure which appears the same when unfolded:
1. 1
2. 2
3. 3
4. 4

79. A mirror is placed vertically as shown in the figure. Choose the correct option for mirror image.

**SUPER-609**
1. 906-3U9P U
2. 309-3U9P U
3. 309-3U9P U
4. 333-3U9P U

80. Each vowel in the word KILOMETER is replaced by the previous letter in the English alphabet & each consonant is replaced by the next letter in the English alphabet, then the substituted letters are arranged in alphabetical order, which will be the fifth from the left end?
1. D
2. L
3. M
4. N

81. The black star moves one position at a time anti-clock wise. The white star moves two positions at a time clockwise. In how many moves will they be together again?

![Image]

1. 4th
2. 6th
3. 8th
4. 10th

---

78. एक कागज का चित्र अनुसार मोटा गया और इसमें छेद किये गए।

![Image]

उत्तर चित्रों में से सही विकल्प का चयन कीजिए जो कागज को खोलने पर दिखाई दें।
1. 1
2. 2
3. 3
4. 4

79. एक शीशा चित्र अनुसार ऊर्ध्वाघात रखा है। प्रतिविम्ब में दिखाया वाले विकल्पों में से सही का चयन कीजिए।

**SUPER-609**
1. 906-3U9P U
2. 309-3U9P U
3. 309-3U9P U
4. 333-3U9P U

80. शब्द KILOMETER में प्रत्येक स्वर (VOWEL) अंग्रेजी वर्णमाला के पिछले पद (alphabet) से बदल दिया जाए और प्रत्येक व्यंजक (Consonant) अगले पद (alphabet) से बदल दिया जाए। अब प्रतिस्थापित पदों को पद अनुक्रम (alphabetical order) में लगाया जाए तो बायी ओर से पौंडपा पद निम्न में से क्या होगा?
1. D
2. L
3. M
4. N

81. काला तारा एक बार में घड़ी की किर्सीत दिशा में एक स्थान बदलता है। सफ़ेद तारा एक बार में दो स्थान बदलता है। कितनी बार स्थान बदलने पर दोनों तारे साथ-साथ होंगे?

![Image]

1. 4th
2. 6th
3. 8th
4. 10th
82. Which of the given Net from the answer options when folded will results in the given cube?

1.  
2.  
3.  
4.  

83. Which of the alternatives will complete the figure?

1. (i)  
2. (ii)  
3. (iii)  
4. (iv)  

Directions: (Q.No. 84 to 85) : Count the number of cubes in the given figure of each question and choose correct answer out of four alternative.

84. 

1. 64  
2. 68  
3. 66  
4. 70

85. The number of squares on a chess board is

1. 203  
2. 204  
3. 205  
4. 206
### Direction: (Q.No. – 86 & 87) : A net is given which can be folded into a figure. Choose the correct alternative which can be made from the net.

<table>
<thead>
<tr>
<th>Question Figure</th>
<th>Answer Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Figure" /></td>
<td><img src="options1" alt="Options" /></td>
</tr>
</tbody>
</table>

- **Figure (1)**
- **Figure (2)**
- **Figure (3)**
- **Figure (4)**

### 86.

<table>
<thead>
<tr>
<th>Question Figure</th>
<th>Answer Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2" alt="Figure" /></td>
<td><img src="options2" alt="Options" /></td>
</tr>
</tbody>
</table>

- **Figure (1)**
- **Figure (2)**
- **Figure (3)**
- **Figure (4)**

### 87.

<table>
<thead>
<tr>
<th>Question Figure</th>
<th>Answer Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Figure" /></td>
<td><img src="options3" alt="Options" /></td>
</tr>
</tbody>
</table>

- **Figure (1)**
- **Figure (2)**
- **Figure (3)**
- **Figure (4)**

### Direction: (Q.No. 88 to 89):

In each of the following questions figure (x) is embedded in any one of the four alternative figures (1) (2) (3) and (4). Find the alternative which contains figure (x) as its part.

<table>
<thead>
<tr>
<th>Question Figure</th>
<th>Answer Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Figure" /></td>
<td><img src="options4" alt="Options" /></td>
</tr>
</tbody>
</table>

- **Figure (1)**
- **Figure (2)**
- **Figure (3)**
- **Figure (4)**

### 88.

<table>
<thead>
<tr>
<th>Question Figure</th>
<th>Answer Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Figure" /></td>
<td><img src="options5" alt="Options" /></td>
</tr>
</tbody>
</table>

- **Figure (1)**
- **Figure (2)**
- **Figure (3)**
- **Figure (4)**

### 89.

<table>
<thead>
<tr>
<th>Question Figure</th>
<th>Answer Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image6" alt="Figure" /></td>
<td><img src="options6" alt="Options" /></td>
</tr>
</tbody>
</table>

- **Figure (1)**
- **Figure (2)**
- **Figure (3)**
- **Figure (4)**
90. How many rectangles does the following figure have?

1. 10
2. 12
3. 13
4. 14

91. How many squares are there in the given figure?

1. 11
2. 17
3. 13
4. 16

Directions (Q.No. 92 - 94): In each of the following questions, figures A and B are related. Find the figure from figures (1), (2), (3) and (4) which has the same relationship with figure C.

92. Question Figures

(A) (B) (C) (D)

Answer Figures

(1) (2) (3) (4)

93. Question Figures

(A) (B) (C) (D)

Answer Figures

(1) (2) (3) (4)

94. Directions: (94 to 96): In each of the following questions choose the correct water image of figure (x) from the four alternatives (1), (2), (3) and (4).

(X) (1) (2) (3) (4)
Directions (Q.No. 97 to 98) In each of the following questions, you have figure (x) followed by four alternative figures (1), (2), (3) and (4) such that figure (x) is embedded in one of them. Trace out the alternative figure, which contains figure (x) as it's part.

97.

(X)

(1)

(2)

(3)

(4)

98.

(X)

(1)

(2)

(3)

(4)

Directions (Q. No. 99 – 100) : Select a figure from the four alternatives, which when placed in the blank space of figure (x) would complete the pattern.

99.

(X)

(1)

(2)

(3)

(4)

100.

(X)

(1)

(2)

(3)

(4)
### Question 101
A body starts from rest and is accelerated uniformly for 30 seconds. If $x_1$, $x_2$, $x_3$ are the distances travelled in the first 10 seconds, the next 10 seconds, and the last 10 seconds respectively, then $x_1 : x_2 : x_3$ is:

- $1:2:3$
- $1:1:1$
- $1:3:5$
- $3:9:1$

### Question 102
A bomb of mass $3$ kg explodes into two pieces of equal mass $m$ kg and $2m$ kg. If the velocity of $m$ kg mass is $16 m/s$, the total kinetic energy released in the explosion is:

- $192 \text{ mJ}$
- $96 \text{ mJ}$
- $768 \text{ mJ}$

### Question 103
Figure shows a ray of light as it travels from medium 1 to medium 2. If the refractive index of medium 1 with respect to medium 2 is $\sqrt{2/3}$, then the value of angle $x$ is:

- $30^{\circ}$
- $45^{\circ}$
- $60^{\circ}$
- $15^{\circ}$

### Question 104
Which of the following statements is true?

1. A convex lens with power +4D has a focal length $-0.25$ m.
2. A convex lens with power -4D has a focal length $+0.25$ m.
3. A concave lens with power +4D has a focal length $-0.25$ m.
4. A concave lens with power -4D has a focal length $+0.25$ m.
105. A constant current $I$ flows in a horizontal wire in the plane of the paper from West to East as shown in the figure. The direction of magnetic field at a point will be South to North.

- directly above the wire
- directly below the wire
- at a point located in the plane of the paper, on the north side of the wire
- at a point located in the plane of the paper, on the south side of the wire

106. If the current through a resistor is increased by 50%, the increase in power dissipated will be (assume the temperature remains constant)

<table>
<thead>
<tr>
<th>Percentage Increase</th>
<th>Power Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>225%</td>
<td>200%</td>
</tr>
<tr>
<td>250%</td>
<td>125%</td>
</tr>
</tbody>
</table>

107. The velocity – time graph of a moving body is shown in the figure.

Which of the following statements is true?

1. The acceleration is constant and positive.
2. The acceleration is constant and negative.
3. The acceleration is increasing and positive.
4. The acceleration is decreasing and negative.

108. Which of the following eye defects can be rectified using a cylindrical lens?

<table>
<thead>
<tr>
<th>Eye Defect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myopia</td>
</tr>
<tr>
<td>Presbyopia</td>
</tr>
<tr>
<td>Astigmatism</td>
</tr>
<tr>
<td>Hypermetropia</td>
</tr>
</tbody>
</table>

109. The linear distance between a consecutive compression and a rarefaction in longitudinal wave is

<table>
<thead>
<tr>
<th>Distance</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. $y$</td>
<td>2. $\frac{y}{2}$</td>
</tr>
<tr>
<td>3. $\frac{y}{4}$</td>
<td>4. $\frac{3y}{4}$</td>
</tr>
</tbody>
</table>

106. एक धारा में 50% वास्तव में तापमान दृश्य रहा है। तो अवकाश शक्ति में बढ़ोतरी होगी —

<table>
<thead>
<tr>
<th>Percentage Increase</th>
<th>Power Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>225%</td>
<td>200%</td>
</tr>
<tr>
<td>250%</td>
<td>125%</td>
</tr>
</tbody>
</table>

109. अनुदार संख्या विस्तार के प्रयोग से निम्नलिखित में से कोन-सा दृष्टिकोण ज्ञात किया जा सकता है?

<table>
<thead>
<tr>
<th>Image Defect</th>
</tr>
</thead>
<tbody>
<tr>
<td>नीली वृत्ती दृष्टि</td>
</tr>
<tr>
<td>जल दृष्टि दृष्टि</td>
</tr>
<tr>
<td>दृष्टि वैश्वम्य</td>
</tr>
<tr>
<td>दृष्टि दृष्टि दृष्टि</td>
</tr>
</tbody>
</table>

108. नीली वृत्ती दृष्टि से 50% वास्तव में कोन-सा दृष्टि दृष्टि ज्ञात किया जा सकता है?
110. For the wave shown in figure, calculate the frequency and wave length of the wave if its speed is 320 m/s.

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Wave Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 80cm, 4000Hz</td>
<td>2. 8cm, 400Hz</td>
</tr>
<tr>
<td>3. 80cm, 400Hz</td>
<td>4. 8cm, 40Hz</td>
</tr>
</tbody>
</table>

111. If x calories of heat are supplied to 15g of water, its temperature rises from 20°C to 24°C. If specific heat for water is 1 cal g⁻¹ °C⁻¹, then the value of x is.

| x | 1. 30 | 2. 120 | 3. 15 | 4. 60 |

112. In a hydro-Power Plant –

1. Kinetic energy possessed by the stored water is converted into potential energy.
2. Potential energy possessed by the stored water is converted into electricity.
3. Water is converted into steam to produce electricity.
4. Heat is extracted from water to produce electricity.

113. The mass of a planet is twice and its radium is three times that of the earth. The weight of a body, which has a mass of 5 kg, on that planet will be.

| Weight | 1. 11.95N | 2. 10.88N | 3. 9.88N | 4. 20.99N |

114. Which of these can be used as olfactory indicator.

1. Vanilla
2. Onion
3. Clove
4. All the above three

115. What will be the products when acid reacts with metals:

1. Water and hydrogen gas
2. Acid and hydrogen gas
3. Salt and hydrogen gas
4. Base and hydrogen gas

\[ \text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2 \]
116. What happens when methyl orange solution mixed with HCl?
   1. Solution becomes Yellow
   2. Solution becomes Red
   3. Solution becomes Blue
   4. Solution becomes Pink

117. Which of these salts will give acidic solution?
   1. Na₂CO₃
   2. NaCl
   3. NH₄Cl
   4. COONa

118. Name the metal which offers higher resistance to the passage of electricity than copper.
   1. Gold
   2. Silver
   3. Marcury
   4. None of these

119. Name two metals both of which are very ductile as well as malleable.
   1. Gold and copper
   2. Gold and silver
   3. Silver and copper
   4. None of these

120. Tick the arrangement of metals Fe, Cu, Zn, Ag in the order of decreasing Reactivity.
   1. Fe > Cu > Zn > Ag
   2. Cu > Fe > Zn > Ag
   3. Ag > Zn > Fe > Cu
   4. Zn > Cu > Fe > Ag

121. Which metal does not corrode easily?
   1. Gold
   2. Silver
   3. Platinum
   4. All the above

122. pH is defined as:
   1. - log [H₃O⁺]
   2. - log [H₂O]
   3. - log [OH⁻]
   4. - log [H⁺] [OH⁻]

123. A solution turns methyl orange into yellow the approximate pH of solution is
   1. 1.2 - 2.8
   2. 3.1 - 4.4
   3. 6.0 - 7.6
   4. 8.3 - 10.0

124. Zinc reacts with NaOH solution to produce.
   1. O₂
   2. H₂
   3. NH₃
   4. NO₂

125. Aqueous Solution of SO₂ is
   1. Acidic
   2. Basic
   3. Neutral
   4. Amphoteric
<table>
<thead>
<tr>
<th>126.</th>
<th>Ethane with the molecular formula C$_2$H$_6$ has.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>6 Covalent Bond</td>
</tr>
<tr>
<td>2.</td>
<td>7 Covalent Bond</td>
</tr>
<tr>
<td>3.</td>
<td>8 Covalent Bond</td>
</tr>
<tr>
<td>4.</td>
<td>9 Covalent Bond</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>127.</th>
<th>A flagellum is present at one end of a protozoan. It is:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Planaria</td>
</tr>
<tr>
<td>2.</td>
<td>Paramecium</td>
</tr>
<tr>
<td>3.</td>
<td>Hydra</td>
</tr>
<tr>
<td>4.</td>
<td>Leishmania</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>128.</th>
<th>DNA is not present in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chloroplast</td>
</tr>
<tr>
<td>2.</td>
<td>Mitochondria</td>
</tr>
<tr>
<td>Nucleus</td>
<td>Ribosome</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>129.</th>
<th>The wings of house fly and the wings of a sparrow are an example of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Analogous organs</td>
</tr>
<tr>
<td>2.</td>
<td>Vestigial organs</td>
</tr>
<tr>
<td>3.</td>
<td>Respiratory organs</td>
</tr>
<tr>
<td>4.</td>
<td>Homologous organs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>130.</th>
<th>Which of the following is NOT the purpose of Transpiration?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Help in absorption and transportation in plants.</td>
</tr>
<tr>
<td>2.</td>
<td>Prevents loss of water</td>
</tr>
<tr>
<td>3.</td>
<td>Maintains the shape and structure of plants by keeping the cell turgid</td>
</tr>
<tr>
<td>4.</td>
<td>Supplies water for photosynthesis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>131.</th>
<th>Pulmonary vein carries:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Deoxgenated blood</td>
</tr>
<tr>
<td>2.</td>
<td>Oxygenated blood</td>
</tr>
<tr>
<td>3.</td>
<td>Mixed blood</td>
</tr>
<tr>
<td>4.</td>
<td>None of these</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>132.</th>
<th>Cell division in plants is promoted by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Abscisic acid</td>
</tr>
<tr>
<td>2.</td>
<td>Gibberlin</td>
</tr>
<tr>
<td>3.</td>
<td>Ethylene</td>
</tr>
<tr>
<td>4.</td>
<td>Cytokinin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>133.</th>
<th>Loop of Henle is found in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Lungs</td>
</tr>
<tr>
<td>2.</td>
<td>Liver</td>
</tr>
<tr>
<td>3.</td>
<td>Nephron</td>
</tr>
<tr>
<td>4.</td>
<td>Neuron</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>126.</th>
<th>Et$e$en C$_2$H$_6$ अणुसूचक के साथ कितने अवधार रखता है।</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>6 रह वन्ध संयोजक</td>
</tr>
<tr>
<td>2.</td>
<td>7 रह वन्ध संयोजक</td>
</tr>
<tr>
<td>3.</td>
<td>8 रह संयोजक वन्ध</td>
</tr>
<tr>
<td>4.</td>
<td>9 रह संयोजक वन्ध</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>127.</th>
<th>एक प्रोटोजिओम में एक किनारे पर रखाम है, वह है:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>जलनेरिया</td>
</tr>
<tr>
<td>2.</td>
<td>पैरामीशियन</td>
</tr>
<tr>
<td>3.</td>
<td>हाइड्रा</td>
</tr>
<tr>
<td>4.</td>
<td>लेशमनिया</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>128.</th>
<th>निम्नलिखित में से किसमें डी एन ए नहीं पाया जाता है:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>क्लोरोलास्ट</td>
</tr>
<tr>
<td>2.</td>
<td>माइटोकानॉलिया</td>
</tr>
<tr>
<td>3.</td>
<td>क्योन्ड्रूक</td>
</tr>
<tr>
<td>4.</td>
<td>राइबोसोम</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>129.</th>
<th>एक घरेलू मक्कह और गरीबिया के पक्ष, उद्तहरण है:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>समस्त अंग</td>
</tr>
<tr>
<td>2.</td>
<td>अवशेषी अंग</td>
</tr>
<tr>
<td>3.</td>
<td>स्वस्थतीय अंग</td>
</tr>
<tr>
<td>4.</td>
<td>समजात अंग</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>130.</th>
<th>निम्नलिखित में से कौन सा वायुपाल्लजन का उदेश्य नहीं है?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>पीथो में अवशेषण और परिवर्तन में सहायता करना।</td>
</tr>
<tr>
<td>2.</td>
<td>जल की हानि से बचाना</td>
</tr>
<tr>
<td>3.</td>
<td>काशिका को पूजाकर उसकी आकृति एवं आकार को बनाए रखना</td>
</tr>
<tr>
<td>4.</td>
<td>प्रकाश संस्करण के लिए जल की अपूर्ति करना।</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>131.</th>
<th>Pulmonary vein carries:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>डीक्सीजिग्निटर लाइडर</td>
</tr>
<tr>
<td>2.</td>
<td>ऑक्सीजिग्निटर लाइडर</td>
</tr>
<tr>
<td>3.</td>
<td>भिजिग्निटर लाइडर</td>
</tr>
<tr>
<td>4.</td>
<td>इनमें एक कोई नहीं</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>132.</th>
<th>Cell division in plants is promoted by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>एब्सिसिसिक अम्ल</td>
</tr>
<tr>
<td>2.</td>
<td>जिबेरेलिन</td>
</tr>
<tr>
<td>3.</td>
<td>इथाईलिन</td>
</tr>
<tr>
<td>4.</td>
<td>साइटोकांनियन</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>133.</th>
<th>Loop of Henle is found in:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>लंग्स</td>
</tr>
<tr>
<td>2.</td>
<td>लिवर</td>
</tr>
<tr>
<td>3.</td>
<td>नेप्ह्रॉन</td>
</tr>
<tr>
<td>4.</td>
<td>न्यूरन</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>131.</th>
<th>फुस्फुसिसी शिरा में किस प्रकार के रूढिर का परिसंचरण होता है:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>डीऑक्सीजिग्निटर लाइडर</td>
</tr>
<tr>
<td>2.</td>
<td>ऑक्सीजिग्निटर लाइडर</td>
</tr>
<tr>
<td>3.</td>
<td>भिजिग्निटर लाइडर</td>
</tr>
<tr>
<td>4.</td>
<td>इनमें से कोई नहीं</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>132.</th>
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<tbody>
<tr>
<td>1.</td>
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<tr>
<td>2.</td>
<td>जिबेरेलिन</td>
</tr>
<tr>
<td>3.</td>
<td>इथाईलिन</td>
</tr>
<tr>
<td>4.</td>
<td>साइटोकांनियन</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>133.</th>
<th>Loop of Henle is found in:</th>
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<tbody>
<tr>
<td>1.</td>
<td>लंग्स</td>
</tr>
<tr>
<td>2.</td>
<td>लिवर</td>
</tr>
<tr>
<td>3.</td>
<td>नेप्ह्रॉन</td>
</tr>
<tr>
<td>4.</td>
<td>न्यूरन</td>
</tr>
</tbody>
</table>
### 134. Flight and fight hormone is:

1. Adrenalin  
2. Thyroxine  
3. Oxytocin  
4. Insulin

### 135. In the food chain given below, if the amount of energy available at fourth trophic level is 5 KJ, what was the energy available at the producer lever?

Grass → Grasshopper → Frog → Snake → Hawk

- 1. 5000 KJ
- 2. 500 KJ
- 3. 50 KJ
- 4. 5 KJ

### 136. Jaya and Ratna are varieties of:

1. Maize  
2. Rice  
3. Wheat  
4. Bajra

### 137. Which of the following is NOT an ancient water harvesting structure?

1. Kattas  
2. Sargam  
3. Kulhs  
4. Surangam

### 138. ATP is formed by photosynthesizing plant cell by:

1. Photophosphorylation  
2. Oxidative Phosphorylation  
3. Substrate level phosphorylation  
4. All of the above

### 139. Breathing rate in human is controlled by:

1. Thalamus  
2. Hypothalamus  
3. Cerebellum  
4. Medulla oblongata

### 140. The number of pairs of nerves which arise from spinal cord is:

1. 21  
2. 31  
3. 41  
4. 51

### 141. If \( a:b = 2:3 \) and \( x:y = 3:4 \), then

\[
2ax - 25by = \frac{3ay + 4bx}{2}
\]

- 1. 24 / 5  
- 2. 5 / 24  
- 3. -24 / 5  
- 4. 12 / 13

### 142. A square is inscribed in a circle of radius \( a \). Another circle is inscribed in that square and again a square is inscribed in this circle. The side of this square is:

- 1. 2a  
- 2. \( \frac{a}{2} \)  
- 3. \( \frac{a}{\sqrt{2}} \)  
- 4. a
143. If \( \cos \theta - \sin \theta = c \), then \( \sin \theta + b \cos \theta = ? \)

- \( \sqrt{a^2 + b^2 + c^2} \)
- \( \sqrt{a^2 + b^2 - c^2} \)
- \( \sqrt{a^2 - b^2 + c^2} \)
- \( \sqrt{a^2 - b^2 - c^2} \)

144. If \( x^2 - 3x + 2 \) is a factor of \( x^4 - px^2 + q \), then the values of \( p \) and \( q \) respectively are:

- \(-5, 4\)
- \(-5, -5\)
- \(5, 4\)
- \(5, -4\)

145. If \( x_1, x_2, x_3, \ldots, x_n \) are in A.P., then the value of

\[
\frac{1}{x_1x_2} + \frac{1}{x_2x_3} + \ldots + \frac{1}{x_{n-1}x_n}
\]

is:

- \(\frac{n-1}{x_1x_n}\)
- \(\frac{n-1}{x_2x_{n-1}}\)
- \(\frac{n}{x_1x_n}\)
- \(\frac{n+1}{x_1x_{n-1}}\)

146. If \( x^2 + y^2 + \frac{1}{x^2} + \frac{1}{y^2} = 4 \), then the value of \( x^2 + y^2 \) is:

- \(2\)
- \(4\)
- \(8\)
- \(16\)

147. In the figure, BC = CD = DE and P is mid point of CD. The area of \( \triangle APC \) is:

- \(\frac{1}{3} \ar (\triangle ABC)\)
- \(\frac{1}{2} \ar (\triangle ABD)\)
- \(\frac{1}{6} \ar (\triangle ABC)\)
- \(\frac{1}{4} \ar (\triangle ABD)\)

148. If \( x, y \) and \( z \) are positive real numbers and \( a, b \) and \( c \) are rational numbers, then value of

\[
\frac{1}{1 + x^{1-a} + x^{-a}} + \frac{1}{1 + x^{1-b} + x^{-b}} + \frac{1}{1 + x^{1-c} + x^{-c}}
\]
is:

- \(-1\)
- \(0\)
- \(1\)
- \(2\)

149. If \( x, y \) and \( z \) are positive real numbers and \( a, b \) and \( c \) are rational numbers, then value of

\[
\frac{1}{1 + x^{1-a} + x^{-a}} + \frac{1}{1 + x^{1-b} + x^{-b}} + \frac{1}{1 + x^{1-c} + x^{-c}}
\]

is:

- \(-1\)
- \(0\)
- \(1\)
- \(2\)
149. If the height of right circular cylinder is increased by 10% while radius of base is decreased by 10% then curved surface area of cylinder:

1. Remains same
2. Decreases by 1%
3. Increases by 1%
4. Increases by 0.1%

150. If \( a_1, a_2, a_3, \ldots, a_n \) are in A.P. and \( a_1 = 0 \), then the value of \( \left( \frac{a_1}{a_2} + \frac{a_2}{a_3} + \ldots + \frac{a_{n-1}}{a_n} \right) \) is equal to

1. \( n + \frac{1}{n} \)
2. \( n - \frac{1}{n} \)
3. \( (n-1) + \frac{1}{n-1} \)
4. \( (n-2) + \frac{1}{n-2} \)

151. There circles touch each other externally and all the three touch a line. If two of them are equal and radius of third circle is 4 cm then radius of equal circles is:

1. 12 cm
2. 8 cm
3. 16 cm
4. 20 cm

152. In the given figure, the centre of the circle is \( A \) and ABCDEF is a regular hexagon of side 6 cm. The approximate area of segment BPF is. (Take \( \pi = 3.14 \)).

1. 25 cm²
2. 22 cm²
3. 32 cm²
4. 30 cm²

153. If \( \frac{1}{y+z} + \frac{1}{z+x} = \frac{2}{x+y} \), then what is the value of \( x^2 + y^2 \)?

1. 1
2. \(-2z^2\)
3. \(2z^2\)
4. \(y^2 + z^2\)

154. If \( x^2 = y+z \), \( y^2 = z+x \) and \( z^2 = x+y \), then what is the value of \( \frac{1}{x+1} + \frac{1}{y+1} + \frac{1}{z+1} \)?

1. 1
2. 0
3. -1
4. 2
155. If \( \alpha, \beta, \gamma \) are the roots of the equation \( x^3 + 4x + 1 = 0 \), then \((\alpha + \beta + \gamma + \gamma + \gamma + \gamma)^{-1}\) is equal to

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2.5</td>
</tr>
<tr>
<td>2.</td>
<td>4.</td>
</tr>
<tr>
<td>3.</td>
<td>3</td>
</tr>
</tbody>
</table>

156. If \( x, y, z \) are three positive numbers then the minimum value of \( \frac{y+z}{x} + \frac{z+x}{y} + \frac{x+y}{z} \) is

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
<td>3.</td>
</tr>
</tbody>
</table>

157. The minimum value of the expression \( \frac{3b+4c}{a} + \frac{4c+a}{3b} + \frac{3b+4c}{4c} \), \((a, b, c \text{ are } +ve)\) is

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
<td>3.</td>
</tr>
</tbody>
</table>

158. The volume of a cube is numerically equal to the sum of the length of its edges. The total surface area of cube in square units is

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>12</td>
</tr>
<tr>
<td>2.</td>
<td>36</td>
</tr>
<tr>
<td>3.</td>
<td>72</td>
</tr>
<tr>
<td>4.</td>
<td>144</td>
</tr>
</tbody>
</table>

159. The expression \( 14^m - 6^m \) will always be divisible by

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>8</td>
</tr>
<tr>
<td>2.</td>
<td>20</td>
</tr>
<tr>
<td>3.</td>
<td>14</td>
</tr>
<tr>
<td>4.</td>
<td>6</td>
</tr>
</tbody>
</table>

160. PQRS is a square of side 6 cm each and T is mid point of QR. What is the radius of circle inscribed in \( \triangle TSR \)?

<table>
<thead>
<tr>
<th>Option 1</th>
<th>( \frac{3}{3-\sqrt{5}} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 2</td>
<td>( \frac{6}{3+\sqrt{5}} )</td>
</tr>
<tr>
<td>Option 3</td>
<td>( \frac{2}{3+\sqrt{5}} )</td>
</tr>
<tr>
<td>Option 4</td>
<td>( \frac{3+\sqrt{5}}{3+\sqrt{5}} )</td>
</tr>
</tbody>
</table>

161. When was the democracy restored in Chile?

<table>
<thead>
<tr>
<th>Option 1</th>
<th>1973</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 2</td>
<td>1988</td>
</tr>
<tr>
<td>Option 3</td>
<td>1957</td>
</tr>
<tr>
<td>Option 4</td>
<td>1991</td>
</tr>
</tbody>
</table>

162. Which of the following country is not a operational member of security council?

<table>
<thead>
<tr>
<th>Option 1</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 2</td>
<td>China</td>
</tr>
<tr>
<td>Option 3</td>
<td>Germany</td>
</tr>
<tr>
<td>Option 4</td>
<td>America</td>
</tr>
</tbody>
</table>
163. Who among the following was not a member of the constituent assembly?
1. Mahatama Gandhi
2. Jawaharlal Nehru
3. Dr. Rajendra Prasad
4. Dr. B. R. Ambedkar

164. Which of the following Secretary General said that "US war on Iraq was not legal"
1. Kofi A. Anan
2. B. B. Ghali
3. U Thant
4. Ban Ki Moon

165. President can declare emergency when –
1. Prime minister advises him to do so
2. Parliament advises
3. The council of ministers, in writing, advises him to do so
4. Home minister ask him to do so

166. "KOSOVO" was a province of try before the split
1. Vietnam
2. Zimbabwe
3. Sri Lanka
4. Yugoslavia

167. Which of the following state was born out of culture, ethnicity and geography.
1. Kerala
2. Nagaland
3. Mizoram
4. Assam

168. ‘End of Racial Discrimination’ is a part of which fundamental right?
1. Right to Freedom
2. Right to equality
3. Right against exploitation
4. Right to education and culture

169. The movement for the individual and family right of women is known as –
1. Mahila Adhikar Aandolan
2. Mahila Shakti Aandolan
3. Narivadi Aandolan
4. Nari Shasaktikaran Aandolan

163. निम्नलिखित में से कौन सिविल राज्य सभा के सदस्य नहीं थे?
1. महात्मा गांधी
2. जवाहर लाल नेहरू
3. भारत राजनेत्र प्रसाद
4. भारत विद्य अभ्यासकर्ता

164. सुश्रुषा परिषद के किस महासचिव ने कहा था “अमेरिका का ईराक पर आक्रमण कानूनी सही नहीं था”
1. काफी ए अनान 2. बी और घाली
3. यू थाई 4. गांधी की मूर्ति

165. राष्ट्रपति आपातकाल की घोषणा करता है जब—
1. प्रधानमंत्री सलाह देते है
2. संसद की सलाह पर
d. मंत्री परिषद की सूचना सलाह पर
d. अग्र मंत्री की सलाह पर
d. अग्र मंत्री की सलाह पर
d. अग्र मंत्री की सलाह पर

166. ‘काफी ओ’ अलग होने से पहले किस देश का प्रांत था –
1. वियतनाम 2. जिब्रायल
3. श्री लंका 4. यूगोस्लाविया

167. किस राज्य का गठन संस्कृति, जातियताओं और भौगोलिक आधार पर हुआ?
1. इंडिया 2. नागालैंड
3. मिजोरम 4. असाम

168. 'अस्पृश्यता का अंत' किस मूलाधार का एक भाग है?
1. स्वतंत्रता का अधिकार
d. समानता का अधिकार
d. शीर्षक का विरुद्ध अधिकार
d. शीर्षक का संस्कृति का अधिकार
d. शीर्षक का संस्कृति का अधिकार

169. महिलाओं के व्यक्तिगत और परिवारी कारण जीवन में बराबरी की माग उठाने वाले आंदोलन को कहा जाता है –
1. महिला अधिकार आंदोलन
2. महिला शक्ति आंदोलन
3. नारीवादी आंदोलन
4. नारी सशक्तिकरण आंदोलन
<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>170. What is the meaning of 'Transparency'?</td>
<td>1. When decision is taken by the ruler.</td>
</tr>
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<td></td>
<td>2. When decision are made through leader's conclusion.</td>
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<td></td>
<td>3. When decision are made for individual greed.</td>
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<td></td>
<td>4. When decision are taken with honesty and proper follow of rules.</td>
</tr>
<tr>
<td>171. The international organisation that works for human rights is</td>
<td>1. Amnesty International</td>
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<td></td>
<td>2. Amnesty International</td>
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<td></td>
<td>3. Amnesty International</td>
</tr>
<tr>
<td></td>
<td>4. Amnesty International</td>
</tr>
<tr>
<td>172. What was 'Livre'?</td>
<td>1. Currency of France</td>
</tr>
<tr>
<td></td>
<td>2. Newspaper of France</td>
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<td></td>
<td>3. Magazine of France</td>
</tr>
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<td></td>
<td>4. Flag of France</td>
</tr>
<tr>
<td>173. Who granted sole right to trade with East to East India Company</td>
<td>1. James I</td>
</tr>
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<td></td>
<td>2. James II</td>
</tr>
<tr>
<td></td>
<td>3. Elizabeth I</td>
</tr>
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<td></td>
<td>4. Elizabeth II</td>
</tr>
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<td>174. In which congress session, Non cooperation programme was adopted</td>
<td>1. Ahmedabad 1921</td>
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<td></td>
<td>2. Kolkata 1917</td>
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<td></td>
<td>3. Amritsar 1919</td>
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<td></td>
<td>4. Nagpur 1920</td>
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<td>175. The first Modern Novel published in Malayalam in the year 1889 was</td>
<td>1. Indulekha</td>
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<td></td>
<td>2. Rajasekhara Caritamau</td>
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<td></td>
<td>3. Manju Ghose</td>
</tr>
<tr>
<td></td>
<td>4. Pariksha Guru</td>
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<td>176. The painting 'Damayanti' was made by</td>
<td>1. Abindra Nath Tagore</td>
</tr>
<tr>
<td></td>
<td>2. William Jones</td>
</tr>
<tr>
<td></td>
<td>3. Raja Ravi Verma</td>
</tr>
<tr>
<td></td>
<td>4. Ravindra Nath Tagore</td>
</tr>
<tr>
<td>177. When was Simon Commission arrived in India?</td>
<td>1. 1928</td>
</tr>
<tr>
<td></td>
<td>2. 1930</td>
</tr>
<tr>
<td></td>
<td>3. 1931</td>
</tr>
<tr>
<td></td>
<td>4. 1932</td>
</tr>
</tbody>
</table>
178. "Rinderpest" is a term used for
1. A cattle disease
2. Missing of cattle
3. Indentured Labourer
4. Mass production in a factory

179. Giuseppe Garibaldi was a famous freedom fighter of
1. Germany
2. Poland
3. Ireland
4. Italy

180. Gudem Rebellion was led by
1. Baba Ramchandra
2. Jawahar Lal Nehru
3. Alluri Sitaram Raju
4. Mahatma Gandhi

181. "The Social Contract" book was written by
1. Dantey
2. Rousseau
3. Petarek
4. Napoleon

182. The principle of the 'Garden City' was developed by
1. Raymond Unwin
2. Barry Parker
3. Ebenezar Howard
4. Herbert Baker

183. Which of the following organisation looks after the credit needs of agriculture and rural development in India.
1. FCI
2. IDBI
3. NABARD
4. SBI

184. How many phases are there in circular flow of income?
1. 2
2. 3
3. 6
4. 5

185. Which of the following is considered as social infrastructure?
1. Transport
2. Education
3. Energy
4. Communication

186. Multiple cropping refers to
1. Cultivation of Wheat and Rice
2. Cultivation of two crops in alternate rows
3. Cultivating more than one crop on the same field in a year.

178. "रिंडरपेस्ट" शब्द किसके लिए प्रयुक्त हुआ?
1. पशुओं में बीमारी
2. पशुओं का गुण हो जाना
3. अनुच्छेदित श्रमिक
4. फैक्ट्री में दूहद उत्पादन

179. गुडेम विदोह का नेतृत्व किसने किया?
1. बाबा साम्राज्य
2. जवाहर लाल नेहरू
3. अलूंरी सिताराम राजू
4. महात्मा गाँधी

180. गुडेम विदोह का नेतृत्व किसने किया?
1. बाबा साम्राज्य
2. जवाहर लाल नेहरू
3. अलूंरी सिताराम राजू
4. महात्मा गाँधी

181. 'द सोशल कंट्रॅक्ट' नामक पुस्तक किसने द्वारा लिखी गई?
1. डैंटेन
2. रूसेसू
3. पेट्रार्क
4. नॉपोलियन

182. 'गर्भीताओं का शहर' की अक्षरार्थ किसने प्रस्तुत की?
1. रूसेसू अनन्तन
2. बाबा पाकर
3. ऎबेनेजर हावर्ड
4. हार्वर्ड बेकर

183. निम्न में से किन सा संगठन कृषि की साख संबंधी जरूरतें तथा ग्रामीण विकास को संभालता है?
1. FCI
2. IDBI
3. NABARD
4. SBI

184. आय के चक्री में कितने चरण होते हैं?
1. 2
2. 3
3. 6
4. 5

185. निम्न में से किन अभावों का सामाजिक आधारित संरचना मना जाता है?
1. यातायात
2. शिक्षा
3. ऊर्जा
4. सूचनायात

186. बहुसंस्कृतिय से क्या अभिप्राय है?
1. गेहुं एवं चावल उगाना?
2. दी फसलों अलग-अलग पक्षियों में उगाना?
3. एक ही खेत में एक वर्ष में एक से अधिक फसल उगाना?
4. फसलों उगाना और पशुपालन एक साथ करना?
187. Infant mortality rate refers to the death of child under the age of
1. 1 year 2. 2 year
3. 3 year 4. 4 year

188. In which year was the Integrated Child Development Service (ICDS) introduced
1. 1965 2. 1975

189. The first chairman of Planning commission was?
1. Indira Gandhi 2. Dr. Rajendra Prashad
3. Jawaharlal Nehru 4. Vallabhbhai Patel

190. What percent of the total surface area of India is covered by mountains?
1. 33% 2. 35%
3. 30% 4. 25%

191. Which mineral has excellent dielectric strength, insulating properties, low power loss factor and resistance to high voltage?
1. Aluminium 2. Lime stone
3. Copper 4. Mica

192. Which of the following is an example of joint sector industry?
1. BHEL 2. OIL
3. SAIL 4. TISCO

193. Which mode of transport reduces transmission losses and delays?
1. Railways 2. Road ways
3. Water ways 4. Pipelines

194. Which of the following lake lies on the Equator?
1. Lake Victoria 2. Lake Malavi
3. Lake Nasser 4. None of these

195. The longitudinal valleys lying between Lesser Himalayas and Shivaliks are known as:
1. Valleys 2. Coast
3. Passes 4. Duns

196. In winters, the western cyclonic disturbances originate from which sea?
1. Caspian sea 2. Black sea

187. शिशु मृत्यू दर से अभिप्रयात कितनी आयु तक के बच्चों की मृत्यू से है।
1. 1 वर्ष 2. 2 वर्ष
3. 3 वर्ष 4. 4 वर्ष

188. समीक्षित बाल कल्याण सेवा (ICDS) किस वर्ष में शुरू की गई थी?
1. 1965 2. 1975

189. योजना आयोग के प्रथम अध्यक्ष कौन थे?
1. इंदिरा गांधी 2. डॉ. राजेंद्र प्रसाद
3. जवाहर लाल नेहरू 4. वल्लभभाई पटेल

190. भारत के कितने प्रशिक्षण क्षेत्र पर पत्ता विस्तार है?
1. 33% 2. 35%
3. 30% 4. 25%

191. किन से खनीज में सवैच्छिक परवेश्युत स्थिति, विस्तारण के गुण, उर्जा त्वरक का सिम गुणांक र उच्च प्रोटेस्ट की प्रतिरोधिता पाई जाती है?
1. एल्युमिनियम 2. चूहा पत्थर
3. ताउबा 4. अम्फाक

192. निम्न में से कौन सा संयुक्त पद्धोग का उदय हस्तान्तरण है?
1. BHEL 2. OIL
3. SAIL 4. TISCO

193. निम्नलिखित में से परिवहन का कौन सा साधन वहनान्तरण हानियों तथा दरों को घटाता है?
1. रेल यात्रा 2. सड़क परिवहन
3. जल परिवहन 4. पाइपलाइन

194. निम्नलिखित में से कौन सी जील भूमध्य रेखा पर स्थित है?
1. विवेकानंद जील 2. मलावी जील
3. नासिर जील 4. इनमें से कोई नहीं

195. लघु हिमालय तथा शिवालिक के मध्य स्थिर अनुपद्ध घाटियों को क्या कहा जाता है?
1. घाटी 2. तट
3. दरवार 4. दून

196. शीत भाग में पश्चिमी विक्षोभ की उत्पत्ति किस सागर से होती है?
1. कैरिबियन सागर 2. काला सागर
3. भूमध्य सागर 4. बाल्टिक सागर
197. Balancing the need to use resources and also conserve them for future is called:
1. Resource development
2. Resource conservation
3. Sustainable development
4. Human Resource Development

198. Which among the following has the maximum number of National Parks?
1. Andaman and Nicobar Island
2. Arunachal Pradesh
3. Assam
4. Meghalaya

199. According to the 'Theory of Plate Tectonics', when some plates come towards each other which one of the following is formed?
1. Convergent boundary
2. Divergent boundary
3. Transform boundary
4. None of the above

200. The largest producer of cotton in the world is:
1. India
2. China
3. Brazil
4. U.S.A.

197. संसाधनों के संतुलित उपयोग की आवश्यकता तथा संसाधन संरक्षण के लिए सुरक्षा को क्या कहते हैं?
1. संसाधन विकास
2. संसाधन संरक्षण
3. संतुलित उपयोग की आवश्यकता तथा संसाधन संरक्षण विकास
4. मानव संसाधन विकास

198. निम्नलिखित में से किस पर स्वाभीम संरक्षण में राष्ट्रीय प्राणी उद्यान स्थित है?
1. अण्डमान निकोबार द्वीप समूह
2. असम
3. अरुणाचल प्रदेश
4. मेघालय

199. प्लेट विभाजनिक सिद्धांत के अनुसार जब दो प्लेट एक दूसरे की ओर गति करती है तो निम्नलिखित में से क्या बनाती है?
1. अभिसारी किनारा
2. अपसारी किनारा
3. संसाधन संरक्षण किनारा
4. इनमें से कोई नहीं

200. विश्व का स्वाभीम क्षेत्र का उत्पादक देश कौन सा है?
1. भारत
2. चीन
3. ब्राजील
4. संयुक्त राष्ट्र अमेरिका