संदर्भ कर्मिकता उप समिति पंजीकृत फारम, पैसाबुधी भैरो, विभागीय भवन, वर्ष-21, भारत सरकार मन्त्री समिति खानदान विभाग. वेब साइट: 0172-2212221

भेल:
मधुबन मिश्रा समिति परिषद(म.सी.),
मधुबन मिश्रा डेल्क मन्त्री (NMMS),
मधुबन मिश्रा पैसाबुधी,
पेंसाब

भेल: 6/2-19 फरवरी 2019-20
भेल: 13-11-19

रिटम :-
NMMS (मेजर 8वीं) माल 2019-20 दी भूमिका दी Answer Key वेबसाईट 'डे अपलोड व्यक्ति संबंधी।

दिप्वेबड़ हिसे संबंधी अभ्य प्रामाणिक वीडी संच नहीं होगा। नम: NMMS (मेजर 8वीं) माल 2019-20 दी Answer Key विभाग दी वेबसाईट 'डे अपलोड व्यक्ति गयी नहीं। हिसे संबंधी मेल बॉक्स objections ढँके जो भेल 25-11-2019 दो नून 05:00 देंव nmmspunjab@gmail.com 'डे फी-फील फीटी' बेन बीड़े साध।

ममताक विश्वेषक (NMMS/NTSE),
भेल.सी.सी.भारत.भी., पेंसाब

रिटम वेबड़ हिसे उज़्ज़ा दी भूमिका ही मुंहता डे अपलोड व्यक्ति संबंधी साधन ही:-

1. पी.टी. टू मर्बेंद्र, मधुबन मिश्रा,पेंसाब।
2. पी.टी. टू विश्वेषक, भेल.सी.सी.भारत.भी., पेंसाब।
3. विश्वेषक उपलब्ध मधुबन मिश्रा,पेंसाब।
4. विश्वेषक उपलब्ध, भेल.आदि.भेल. हिंदी दी वेबसाईट 'डे अपलोड व्यक्ति गयी।
Mental Ability and Scholastic Aptitude Test

Time: 3 hours
Max. Marks: 180

Instructions for candidates:

1. This exam is in two parts.

2. Part - I is related to Mental Ability Test which consists of 90 questions.

3. Part - II relates to Scholastic Aptitude Test which consists of 90 questions relating to three subjects listed below:
   (i) Mathematics
   (ii) Science
   (iii) Social Studies

4. Each question carries one mark. All questions are compulsory.

5. You have been provided with an answer sheet (OMR) for this question paper. Darken the correct option of each question in the answer sheet (OMR) with black/blue ball pen.

6. Rough work may be done on the blank space provided for this purpose.

7. There is no negative marking in this test.

8. Do not use white fluid on OMR Answer Sheet.

9. Half an hour extra should be given to disabled candidates only.
Directions: (Question 1-10) There is a number/letter series following a pattern. One place is left blank in the series. Find out the correct answer from the options.

<table>
<thead>
<tr>
<th>Question</th>
<th>Series</th>
<th>Options</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>6,11,21,36,56</td>
<td>(1) 42, (2) 51, (3) 81, (4) 91</td>
<td>(1)</td>
</tr>
<tr>
<td>2.</td>
<td>2,3,5,7,___, 13</td>
<td>(1) 8, (2) 9, (3) 11, (4) 12</td>
<td>(1)</td>
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<tr>
<td>3.</td>
<td>3,6,10,15,21,___</td>
<td>(1) 30, (2) 28, (3) 32, (4) 34</td>
<td>(1)</td>
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<tr>
<td>4.</td>
<td>4D, 16F, 36H, 64J,___</td>
<td>(1) 200M, (2) 81R, (3) 144P, (4) 100L</td>
<td>(1)</td>
</tr>
<tr>
<td>5.</td>
<td>3,5,6,9,9,13,12___</td>
<td>(1) 17, (2) 19, (3) 13, (4) 15</td>
<td>(1)</td>
</tr>
<tr>
<td>6.</td>
<td>2,3,7,4,5,21,6,7,43,8,9,___</td>
<td>(1) 72, (2) 57, (3) 73, (4) 83</td>
<td>(1)</td>
</tr>
<tr>
<td>7.</td>
<td>ZA, YB, XC, WD,___</td>
<td>(1) UF, (2) VE, (3) TG, (4) SH</td>
<td>(1)</td>
</tr>
<tr>
<td>8.</td>
<td>KM 5, IP 8, GS 11, EV 14,___</td>
<td>(1) BX 17, (2) BY 17, (3) CY 17, (4) CX 17</td>
<td>(1)</td>
</tr>
<tr>
<td>9.</td>
<td>AZ, GT, MN,___, YB</td>
<td>(1) JH, (2) SH, (3) SK, (4) TS</td>
<td>(1)</td>
</tr>
<tr>
<td>10.</td>
<td>2,5,9,19,37,___</td>
<td>(1) 73, (2) 75, (3) 76, (4) 78</td>
<td>(1)</td>
</tr>
</tbody>
</table>
Directions: (Question 11-16) Find the wrong/odd term.

<p>| | | | | |</p>
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<tbody>
<tr>
<td>11)</td>
<td>50,52,55,60,64,70</td>
<td>(1) 70</td>
<td>(2) 52</td>
<td>(3) 60</td>
</tr>
<tr>
<td>12)</td>
<td>83, 73,63, 53,43</td>
<td>(1) 63</td>
<td>(2) 43</td>
<td>(3) 83</td>
</tr>
<tr>
<td>13)</td>
<td>8,27, 64, 125, 216, 343</td>
<td>(1) 216</td>
<td>(2) 64</td>
<td>(3) 8</td>
</tr>
</tbody>
</table>

14) EG, HJ, KM, NO, QS
(1) KM (2) QS (3) EG (4) NO

15) 6,12,20,30,40,56,72
(1) 20 (2) 72 (3) 40 (4) 6

16) (1) Copper (2) Zinc (3) Brass (4) Iron

Direction: (Question 17-21) According to the specific pattern fill the blank spaces of letter series in the following questions.

17. ac _ cab _ baca _aba_ _acac
   (1) bcbb (2) babb (3) acbc (4) aacb

18. N _ PC _ TP _ NT _ C
   (1) TNCP (2) PCNT (3) TCNP (4) CPTN

19. ab _ _ baa _ _ ab __
    (1) aaaaa (2) aabaa (3) aabab (4) baab

20. a _ ba _ b _ b _ a _ b __
    (1) abaab (2) abbbab (3) aabba (4) bbbabb

21. ba _ cb _ b _ bab __
    (1) acbb (2) bacc (3) bcaa (4) cabb
Direction - (Question 22-27) Replace the question mark (?) with suitable number from alternatives.

22. 

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>13</td>
<td>3</td>
<td>64</td>
</tr>
<tr>
<td>15</td>
<td>5</td>
<td>100</td>
</tr>
<tr>
<td>?</td>
<td>6</td>
<td>196</td>
</tr>
</tbody>
</table>

(1) 20  
(2) 22  
(3) 24  
(4) 26

23. 

(1) 48  
(2) 74  
(3) 63  
(4) 53

24. 

(1) 99  
(2) 61  
(3) 66  
(4) 67

25. 

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

26. 

(1) 12  
(2) 14  
(3) 15  
(4) 18
28. 124:94 :: 321:?
   (1) 83
   (2) 73
   (3) 63
   (4) 96

29. 19:23 :: 31:?
   (1) 37
   (2) 38
   (3) 33
   (4) 42

30. Man:walk :: Fish:?
    (1) Eat
    (2) Live
    (3) Swim
    (4) Sleep

31. Mumbai:Maharashtra :: Jaipur:?
    (1) Himachal Pradesh
    (2) Jammu Kashmir
    (3) Rajasthan
    (4) Sikkim

Directions: Based upon the place values of alphabets answer the questions (32-34).

32. If ASI = 29, ADC = 8 then DGSE = ?
    (1) 45
    (2) 19
    (3) 35
    (4) 28

33. If GO = 105, HT = 160 then RAC = ?
    (1) 128
    (2) 54
    (3) 68
    (4) 84

34. If NMS = 23, NTR = 26 then TNSE = ?
    (1) 28
    (2) 43
    (3) 30
    (4) 29

35. Which of the following words cannot be formed from the letter of given word - MERITORIOUS
    (1) MENRIS
    (2) METORI
    (3) RISUT
    (4) TORIM
Direction: Answer the questions (36-39) based on the given figure.

36. How many squares are there in the given figure?
   (1) 3  (2) 6  (3) 5  (4) 2

37. How many triangles are there?
   (1) 12  (2) 30  (3) 16  (4) 28

38. How many straight lines are there?
   (1) 12  (2) 15  (3) 10  (4) 16

39. How many rectangles are there excluding squares?
   (1) 3  (2) 2  (3) 5  (4) 4

40. Which of the following word can be formed from 'SMART SCHOOL'?
   (1) MNAS  (2) SCHON  (3) RATS  (4) SMRG T

41. Rohan ranks seventh from the top and twenty six from the bottom in a class. How many students are there in the class?
   (1) 31  (2) 32  (3) 33  (4) 34

Q.42 Select the combination of the numbers so that the letters arranged according will form a meaningful word.

R C E A
1 2 3 4
(1) 1423  (2) 2431  (3) 1234  (4) 4312

43. How many 5's are in the combination which are preceeded by 2 and followed by 3.
   352 623 542 535 241 253 768 253 482
   (1) 1  (2) 2  (3) 3  (4) 4
44. How many numbers are there between 2 and 80 which are divisible by 9.
   (1) 10  (2) 9
   (3) 7  (4) 8

45. The position of how many digits in the given number will remain same when the digits of the number are written in reverse order.
   1 2 3 4 5 6 7 8 9
   (1) 4  (2) 1
   (3) 2  (4) 3

46. Roshan walks 5m towards east, he turns right and walks 5m, again he turns right and walks 5m. Now, in which direction is he from the starting point.
   (1) South       (2) North
   (3) East        (4) West

47. Rahul walks 2m towards north, He turns left and walks 2m, Then he turns right and walks 2m. Again he turns right and walks 2m. How far is he from the starting point.
   (1) 2 m    (2) 3 m
   (3) 5 m    (4) 4 m

48. If in a certain language 'MADRAS' is coded as 'NBESBT', how is 'BOMBAY' coded in that language?
   (1) CPNCBX  (2) CPNCBZ
   (3) CPOCBZ  (4) CQOCBZ

49. In a certain code 'ROAD' is written as URDG, how is 'SWAN' written in that code?
   (1) VXDQ  (2) VZDQ
   (3) VZCP  (4) UXDQ

50. If in a certain code BAT=23 and CAT=24 then how will you code BALL?
    (1) 27  (2) 28
    (3) 32  (4) 120

51. IF DRIVER=12, PEDESTRAIN=20, ACCIDENT = 16 then MOUSE = ?
    (1) 8    (2) 10
    (3) 13   (4) 9
52. If A is coded as C, B is coded as D, C is coded as E and so on, then NMMS will be coded as?
   (1) POOU (2) PUUO (3) UPPO (4) POOU

53. If HARP = 8034, SHUP = 6854, then RUSH will be coded as?
   (1) 3658 (2) 3568 (3) 3583 (4) 3685

54. If Moon is called Green, Green is called blue, blue is called Earth. Earth is called brown, brown is called Sky, Sky is called water, water is called red, red is called Sun, Then what do we drink when thirsty.
   (1) Green (2) Red (3) Brown (4) Water

Direction: Arrange the words in alphabetical order and write/choose the word which comes in the second place in questions (55-56).

55. (1) Sateiseya (2) Satyea (3) Satisfy (4) Satishta
56. (1) Kratoosh (2) Kretish (3) Kreshit (4) Krashoot

Directions: (Questions 57-59) which of the following diagrams correctly represent the relation between given three words.

57. Week, Day, Year
58. Vegetables, Potato, Carrot
59. Table, Pen, Bus
60. A Pen always has:
   (1) Nib (2) Tube (3) Cap (4) Ink
Directions: (Question 61-63) Study the following figure carefully and answer the given questions.

61. Which region denotes Indian leaders who are not singers?
   (1) 2            (2) 3
   (3) 4            (4) 5

62. Which region represents Indian leaders who are singers?
   (1) 2            (2) 3
   (3) 4            (4) 5

63. Which region represents Indian singers who are not leaders?
   (1) 1            (2) 2
   (3) 3            (4) 4

64. If L stands for +, M stands for −, N stands for X, P stands for + then
   \[14 + 10 \div 2 + 2 = ?\]
   (1) 153          (2) 216
   (3) 248          (4) 251

65. If + means ÷, ÷ means −, − means x and x means + then
   \[12 + 6 \div 3 - 2 \times 8 = ?\]
   (1) -2           (2) 2
   (3) 4            (4) 8

66. Which letter is 16th to the right of the letter which is fourth to the left of ‘I’?
   (1) S            (2) T
   (3) U            (4) V

67. A leap year contains how many weeks and how many odd days.
   (1) 52 weeks and one odd day
   (2) 51 weeks and two odd days
   (3) 51 weeks and one odd day
   (4) 52 weeks and two odd days
68. If 'P' is the brother of 'Q', 'Q' is the sister of 'R', 'R' is the son of 'T'. Then what is the relation of 'R' with 'P'.
   (1) Son (2) Father (3) Sister (4) Brother

69. 'M' is the son of 'N', 'P' who is the sister of 'N' has son 'D', How is 'M' related to 'D'?
   (1) Nephew (2) Uncle (3) Cousin (4) Brother

70. If the day of week on 3rd November 2019 will be Sunday then day of week on 3rd November 2020 will be.
   (1) Tuesday (2) Wednesday (3) Friday (4) Monday

Directions (Question 71-72) : Three figures marked I,II,III have one fold at 1, 2nd fold at II and is cut in figure III from amongst the four alternatives showing the unfolded position of figure III.

71.

**Question Figure**

![Figure I](image1)

![Figure II](image2)

![Figure III](image3)

**Answer Figure**

![Alternative 1](image4)

![Alternative 2](image5)

![Alternative 3](image6)

![Alternative 4](image7)

72.

**Question Figure**

![Figure I](image8)

![Figure II](image9)

![Figure III](image10)

**Answer Figure**

![Alternative 1](image11)

![Alternative 2](image12)

![Alternative 3](image13)

![Alternative 4](image14)
Directions: In the Questions (73-74) Find the water image of figure (x).

73. Question Figure

Answer Figure

74. Question Figure

Answer Figure

Directions: In the Questions (75-76) Find the mirror image of figure (x).

75. Question Figure

Answer Figure

76. Question Figure

Answer Figure
Directions: (Questions 77-80) Which figure is different from others.

77.

78.

79.

80.

Directions (Q 81-82) : To complete the figure (x) replace the question mark from four alternatives.

81. Question Figure

Answer Figure

(x)

(x)
82. Question Figure

Answer Figure

Directions: (Question 83-85) Figure 'x' is embedded in which of the following in four alternatives.

83. Question Figure

Answer Figure

84. Question Figure

Answer Figure

85. Question Figure

Answer Figure
Directions: (Questions 86-88) Figure A and B are related in some particular manner. Establish relationship between figure C and D according to the same manner.

**Question Figure**

A  B  C  D

**Answer Figure**

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

86

**Question Figure**

A  B  C  D

**Answer Figure**

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

87

**Question Figure**

A  B  C  D

**Answer Figure**

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

88

**Question Figure**

A  B  C  D

**Answer Figure**

(1)  (2)  (3)  (4)
Directions: (Questions 89-90) Which figure will come at question mark (?).

89. **Question Figure**

Answer Figure

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

89. **Question Figure**

Answer Figure

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

91. Find the smallest perfect square number which is divisible by first four prime numbers.

(1) 900 (2) 3600 (3) 44100 (4) 4900

91. \[11^{32} + 11^{30}\]

92. Find the value of:

\[
\frac{11^{32} + 11^{30}}{11^{30}}
\]

(1) 12221 (2) 1331 (3) 122 (4) 121

93. Gurpreet buys some pencils at the rate of Rs. 5 per pencil and the same number of pencils at the rate of Rs. 6 per pencil. If she sells these pencils at the Rate of Rs. 5.75 per pencil, then find her profit or loss percentage.

(1) 5% loss (2) 4 \frac{6}{11} % profit (3) 5% profit (4) 4 \frac{6}{11} % loss

93. \[\text{ Gurpreet बुल्ले पेंसिल 5 गुने पेंसिल ची एवं 6 गुने पेंसिल ची एवं रु. 5.75 इच्छित सह में एक भूली पेंसिल बुल्ले। तेव्हा दूसरे दिन पेंसिल 5.75 गुने पेंसिल ची एवं रु. 5.75 इच्छित सह में एक भूली पेंसिल बुल्ले।}

(1) 5% नुकसान (2) 4 \frac{6}{11} % लाभ (3) 5% लाभ (4) 4 \frac{6}{11} % नुकसान
94. Area of a rectangle is $49x^2 - 9y^2$ square units. If one side of this rectangle is $(7x+3y)$ units, then find the length of its other sides.

(1) $(7x-3y)$ units
(2) $(7y-3x)$ units
(3) $(7y+3x)$ units
(4) $(7xy+3)$ units.

95. For a number $y$, division $y \div 5$ leaves a remainder 3 and division $y \div 2$ leaves a remainder 1. Find the unit place digit of the number $y$.

(1) 2
(2) 3
(3) 5
(4) 8

96. Given pie chart represents the expenditure of a State Govt. under different heads. If the total expenditure is Rs. 20 crores. How much more money was spent on 'others head ' than education head ?

(1) 40 lakhs
(2) 4 crores
(3) 4 lakhs
(4) 40 thousand

97. In the given Rhombus STAR, $\angle ORA = 55^\circ$, find $\angle QAR$.

(1) $55^\circ$
(2) $45^\circ$
(3) $125^\circ$
(4) $35^\circ$

98. The given net is folded into the shape of a cube, which face will be opposite to face 'C'.

(1) A
(2) D
(3) E
(4) F

99. Find the area of the shaded region in the given figure. Here PQRS is a parallelogram, in which QR = 42 m and LM = 35 m.

(1) 735 m$^2$
(2) 745 m$^2$
(3) 685 m$^2$
(4) 675 m$^2$
100. In the given figure AB = AC, find the value of x.
   (1) 92°  (2) 44°  (3) 136°  (4) 120°

101. What percent of 1 km is 1 cm?
   (1) 1%  (2) 0.001%  (3) 0.01%  (4) 10%

102. If 3/7 of a number is 15 then what is 1.75 times of that number?
   (1) 35.0  (2) 61.25  (3) 60.5  (4) 63.25

103. In the given figure, PQ||RS, TRIQU and ∠PTR = 42°. Find ∠QUR?
   (1) 42°  (2) 84°  (3) 142°  (4) 138°

104. Find the probability of getting a composite number on throwing a dice?
   (1) 1/6  (2) 1/3  (3) 2/3  (4) ½

105. In the given figure, ΔABC and ΔDBC are on the same base BC, AB = DC and AC = DB then which of the following is true?
   (1) ΔABC ≅ ΔDBC  (2) ΔABC ≅ ΔCBD  (3) ΔABC ≅ ΔDCB  (4) ΔABC ≅ ΔBCD

106. If the area of rhombus is ½ x²+2x+3/2 then find its smaller diagonal?
   (1) x-2  (2) x+2  (3) x+1  (4) x
107. If \(3.245 \times 10^k = 0.0003245\) then the value of \(k\) is:
   (1) 4  (2) -4  (3) 3  (4) -3

108. If the price of an article is increased by 20% then decreased by 20%, then how much increase/decrease percentage will be there?
   (1) No change  (2) 4% increase  (3) 4% decrease  (4) 10% decrease

109. Divide number 300 in such a way that half of its one part is 48 less than of its second part. Find its parts.
   (1) 168,132  (2) 158,142  (3) 162,138  (4) 152,148

110. Reciprocal of a positive rational number is always ............
   (1) Positive  (2) Negative  (3) Multiplicative  (4) Additive

111. Earthquake is caused by:
   (1) Gravitational pull of moon  (2) Over population  (3) Movement in tectonic plates  (4) all of these

112. If an object produces 120 oscillations in one minute then calculate its frequency.
   (1) 1Hz  (2) 2Hz  (3) 3Hz  (4) 4Hz

113. Ultrasound has a frequency of:
   (1) 0-20Hz  (2) 20Hz- 20,000Hz  (3) more than 20,000Hz  (4) none

114. If pitch of sound is more, then frequency of sound is:
   (1) More  (2) less  (3) zero  (4) No change

115. Divide number 300 in such a way that half of its one part is 48 less than of its second part. Find its parts.
   (1) 168,132  (2) 158,142  (3) 162,138  (4) 152,148

116. Reciprocal of a positive rational number is always ............
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120. If pitch of sound is more, then frequency of sound is:
   (1) More  (2) less  (3) zero  (4) No change
115. 1 Hz frequency is equal to:
(1) one oscillation per min.
(2) 20 oscillations per min.
(3) 40 oscillations per min.
(4) 60 oscillations per min.

116. Which is not a non-contact force?
(1) Electrostatic force
(2) Gravitational force
(3) Magnetic force
(4) Muscular force

117. What is the full form of LED?
(1) Light Emitting Diode
(2) Light Energy Device
(3) Light Electronic Device
(4) Low Electric Disc

118. Which one is not a good conductor of electricity?
(1) Tap water
(2) Ink
(3) milk
(4) Honey

119. Which one is a non-luminous body?
(1) Sun
(2) Moon
(3) Candle light
(4) Electric Lamp

120. Which part of an eye provides colour to the eye?
(1) Cornea
(2) Iris
(3) lens
(4) pupil

121. Kaleidoscope is based upon:
(1) Reflection
(2) Refraction
(3) Multiple reflection
(4) internal reflection

122. When a ray of light travels from rarer to denser medium, then:
(1) \( \angle i = \angle r \)
(2) \( \angle i < \angle r \)
(3) \( \angle i > \angle r \)
(4) \( \angle i \leq \angle r \)

123. In which part/layer of the atmosphere is the Ozone layer present?
(1) Troposphere
(2) Mesosphere
(3) Thermo sphere
(4) Stratosphere
124. If cloths of equal measurements of cotton, nylon, silk and wool are soaked in a beaker filled with water. After few minutes, were taken out of the beaker and weighed, which of the following is correct order of their final weights?

(1) wool > silk > Nylon > cotton
(2) cotton > silk > nylon > wool
(3) silk > wool > cotton > nylon
(4) wool > cotton > silk > nylon

125. Which of the following material takes 10-15 years to degenerate completely?

(1) Wood
(2) Paper
(3) Peels of vegetable and fruits
(4) Plastic bags

126. P: A liquid metal
Q: A liquid non-metal
R: A gaseous non metal
S: A non metal which conducts electricity

P, Q, R, S are respectively

(1) Iron, Iodine, hydrogen, and oxygen
(2) Gold, Sulphur, Chlorine and hydrogen
(3) Copper, Phosphorus, Nitrogen and Carbon
(4) Mercury, Bromine, oxygen and graphite

127. In general, metallic oxides are:

(1) Basic in nature
(2) Acidic in nature
(3) Neutral in nature
(4) Both 1 and 2

128. Which of the following statements is incorrect:

(1) Coal, petroleum and natural gas are called fossil fuels.
(2) Coal and natural gas are exhaustible substances.
(3) CNG is more polluting than petrol.
(4) Coke is used in the manufacture of steel.

129. I am very reactive. I react vigorously with oxygen and water and generate a lot of heat. I am therefore stored in kerosene. Guess who I am?

(1) Phosphorous  (2) Sodium
(3) Calcium     (4) Iron

124. नेशन बचाव घर मे मुड़ी, तस्फीद, भेजने भत्ते दिंदी लगते पट्ठर मे तो बीच बिछ जूस दिंदे सारे भुजे भरे भर्ने वण बिजे चाप बैंटे मे दुखरू रहा बर्नू बोझ सब ते उबरे दे ब्राक अभासा अब उबथिन मिले, जिसे विभु बुझ मन के सर्कारे?

(1) दिंदी > तस्फीद > तस्फीद > मुड़ी
(2) मुड़ी > भेजने > भेजने > दिंदी
(3) भेजने > दिंदी > मुड़ी > तस्फीद
(4) दिंदी > मुड़ी > भेजने > भेजने

125. नेशन उपलब्ध मिले विवाह, जनयता कला 10-15 साल विष टूटे वे भय है सचेतनें?

(1) जवाब बादल
(2) जवाब कपील
(3) सबसे अधिक द्वारा दिखाये
(4) युद्धमाह नैका

126. P: सबु झुक विच्छिद्र बनाये गांव
Q: सबु नुन विच्छिद्र बनाये भाप
R: तस्फीद अभाय विच्छिद्र बनाये भाप
S: भाप निम्न विच्छिद्र विस्तृति धन कवनी है।

P, Q, R, S व्यवहार उत्तर:

(1) झंझं, वातिलिया, उपडीपेलल भरे भावावलिया
(2) मिठां, साहज, वर्थकृत भरे उपडीपेलल
(3) वापर, दरियाबाज, तस्फीदित भरे वापर
(4) भालबी (घाप), वातिलिया, भावावलिया भरे जूनापेलल

127. भाग बेंके दे जांटौं दे अखबारवाली तो? जांटौं है।

(1) धरे घाउणे देने
(2) डेंसी मुड़णे देने
(3) दिंदीमात
(4) 1 ऋदे 2 डेंगे

128. नेशन उपलब्ध मिले विवाह विभु विवाह बराबर है?

(1) वेंटर, पेक्षववह भरे बुजर्दी तीम पराभव भरार है।
(2) वेंटर भरे बुजर्दी तीम पराभव नोट भरे पराभव भरा है।
(3) मी फेर की पेंट कुंटे बोहे पुष्कलवारी है।
(4) वेंट सी बंटू तौर से फिलार हरी बीडी सांची है।

129. मैं सबु झुकी-विभुविनिविनयी गले। मैं भावावलिया अभरे पट्ठर हारा बानी तो देश पुज्य विभुविनिव भरे उप पैशं वस्त्र गले। फिर भय में दिंदी हेंने बेंके ने नेशन बिघु भूत लगा है। दुखे मैं बेंके जा? भुजु? भुजु? भुजु?

(1) इंडियनम भुजु?
(2) वेदविद्या
(3) लेखनीयमी
(4) हेंज़
130. Rayon is obtained from:
(1) Nylon (2) Carbon
(3) Wood Pulp (4) Jute

131. Chemical formula of Sulphurous Acid is:
(1) H₂SO₄  (2) H₂SO₃
(3) H₂SO₂  (4) H₃SO₄

132. Name a non-metal which is used for antibiotics:
(1) Chlorine (2) Bromine
(3) Iodine  (4) Sulphine

133. Naphthalene balls are obtained from:
(1) Benzene  (2) Petrol
(3) Coal Tar  (4) Chlorine

134. Which non-metal is used for water purification:
(1) Bromine  (2) Chlorine
(3) Iodine   (4) Sulphine

135. Which one is a pollutant?
(1) Chlorinated water (2) Cold water
(3) Hot water  (4) Filtered water

136. On the basis of calorific value of some fuels
find the correct order of efficiency of fuels:

<table>
<thead>
<tr>
<th>Fuel</th>
<th>Calorific Value (KJ/Kg)</th>
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<tbody>
<tr>
<td>Coal</td>
<td>25000-33000</td>
</tr>
<tr>
<td>Diesel</td>
<td>45,000</td>
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<tr>
<td>LPG</td>
<td>55,000</td>
</tr>
<tr>
<td>CNG</td>
<td>50,000</td>
</tr>
</tbody>
</table>

(1) LPG > CNG > Diesel > Coal
(2) Coal > Diesel > LPG > CNG
(3) Diesel > CNG > Coal > LPG
(4) CNG > LPG > Diesel > Coal

137. Take a beaker and fill half of it with water.
Put some wheat seeds in it, stir it and wait for some time. Which of the following statement
is true for this experiment?
(1) Healthy seeds being lighter, float on the surface of water.
(2) Damaged seeds being lighter, float on the surface of water.
(3) Damaged seeds being heavier, settle down at the bottom.
(4) Some damaged seeds and some healthy seeds float on the surface of water.
138. The period of crop harvesting is celebrated with joy and happiness in all parts of India. Which among the following groups of festival is associated with harvest season.
(1) Pongal, Holi, Nabanya, Bihu, Baisakhi
(2) Diwali, Christmas, Eid, Pongal, Baisakhi
(3) Holi, Christmas, Eid
(4) Pongal, Diwali, Eid

139 Which of the following organisms promotes the formation of curd ?
(1) lactobacillus (2) Amoeba (3) Spirogyra (4) Virus

140. The adverse effect of deforestation is
A. Reduce rainfall
B. Soil erosion
C. Destruction of habitat
D. Climate Change
(1) B and C (2) B only (3) A, B and C only (4) A, B, C and D

141. Which of the following is correct sequence
(1) Cell→Organ→Organ System→Tissue→Organism
(2) Cell→Tissue→Organ System→Organism→Organ
(3) Cell→Tissue→Organ→Organ System→Organism
(4) Organism→Organ System→Organ→Tissue→Cell

142. ______ are large area of protected land for conservation of wild life, plant and animal resources and traditional life of the tribals living in the area.
(1) Biosphere Reserve
(2) National Park
(3) Sanctuary
(4) Zoo

143. An ecosystem is made of :
(1) Plants (2) Animals
(3) Non-living (4) All the above

144. What does our body produce to fight the invader when a disease carrying microbe enters our body:
(1) Antigen (2) Antibodies
(3) Pathogens (4) Antibiotics
145. Which of the following is a female reproductive organ?
(1) Testes (2) Spermduct (3) Penis (4) Ovary

146. Which of the following part of cell is common in plant cell, animal cell and bacteria cell?
(1) Chloroplast (2) Cell membrane (3) Cell wall (4) Nucleus

147. In the list of animals given below, hen is odd one out:
Human being, Cow, Dog, Hen.
The reason for this is:
(1) It undergoes internal fertilization (2) It is oviparous (3) It is viviparous (4) It undergoes external fertilization

148. Structure present in a cell which is responsible for determination of sex of a baby is:
(1) Cytoplasm (2) Nucleus (3) Cell Membrane (4) Chromosomes

149. Red Data book is a source of _________
(1) Migration (2) Reforestation (3) Endangered species (4) Ecosystem

150 Read the statement and give appropriate answer:
"I am like a policeman, allows movement of selective substances or materials both inward and outward."
(1) Cell wall (2) Cell membrane (3) Nucleus (4) Mitochondria

151. The plant of which crop is like bush, requires 20° to 30° Celsuis temperature and 150-300 cm annual rainfall for its growth?
(1) Coffee (2) Tea (3) Cocoa (4) Wheat

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(1) Coffee (2) Tea (3) Cocoa (4) Wheat
152. What percentage of hydro-electricity of the world is produced by India?
   (1) 8% (2) 4% (3) 1% (4) 3%

153. Which country produces 50% of the total world maize production?
   (1) USA (2) India (3) Brazil (4) Argentina

154. What the hotness of the air is known as?
   (1) Dust particles (2) Humidity (3) Temperature (4) Organic Ingredients

155. Which of the following is the smallest ocean?
   (1) Indian Ocean (2) Pacific Ocean (3) Atlantic Ocean (4) Arctic Ocean

156. Which of following kind of soil is related to Khadar and Banger?
   (1) Red soil (2) Black soil (3) Alluvial soil (4) Mountain soil

157. Name the largest coffee producing Country?
   (1) India (2) China (3) United States of America (4) Brazil

158. When is wheat sown in Punjab?
   (1) November -December (2) March -April (3) June-July (4) August September

159. Name the natural calamity which is called "Hurricanes " in North America 'typhoons' in South East Asia and Storms or whirlwinds in India?
   (1) Tsunami (2) Volcanic Activity (3) Drought (4) Cyclones
160. Name the ocean where most of the volcanoes erupt in the 'ring of Fire'.
(1) Indian Ocean
(2) Pacific Ocean
(3) Arctic Ocean
(4) Atlantic Ocean

161. Name the largest gold producing state in India.
(1) Punjab
(2) Haryana
(3) Uttar Pradesh
(4) Karnataka

162. Who started Din-i-ilahi?
(1) Akbar
(2) Jahangir
(3) Babar
(4) Aurangzeb

163. Who wrote Jangnanam?
(1) Amrita Pritam
(2) Nanak Singh
(3) Shah Mohammad
(4) Bulleh Shah

164. Between whom the battle of Plassey was fought?
(1) Siraj-ud-Daula and Britishers
(2) Robert Clive and Mir Qasim
(3) Siraj-ud-Daula and Mir Qasim
(4) Robert Clive and Mir Jafer

165. When was the East India Company established in India?
(1) 23 June 1757
(2) 23 October 1764
(3) 31 December 1600
(4) 30 December 1608

166. Who was appointed by Guru Nanak Dev as his successor?
(1) Bhai Mardana
(2) Bhai Lehna ji
(3) Bhai Bala ji
(4) Bhai Lakshmi Chand ji

167. Where did Jyotiba Phule born?
(1) Haryana
(2) Maharashatra
(3) Delhi
(4) Bihar
168. By the 17th Century which of the following powers have declined their influence in India?
(1) Portuguese and Dutch
(2) French and British
(3) Dutch and British
(4) French and Portuguese

169. Who founded the 'Rama Krishna Mission'?
(1) Swami Dayanand Saraswati
(2) Raja Ram Mohan Roy
(3) Swami Vivekanand
(4) Ishwar Chander

170. Who stopped the pension of Nana Sahib after he became the successor.
(1) Lord William
(2) Lord Dalhausie
(3) Lord Cornwallis
(4) Lord Bentick

171. Who raised the slogan 'Delhi Chalo' 'Give me blood, I shall give you freedom' and 'Jai Hind'.
(1) Mahatma Gandhi
(2) Subhash Chander Bose
(3) Bhagat Singh
(4) Mohammad Ali

172. At which system did Raja Ram Mohan Roy propagated to end.
(1) Dowry System
(2) Sati System
(3) Divorce System
(4) Parda System

173. From the following which statement is true
a) Constitution is a legal document
b) The Government of a country runs according to the constitution.
(1) 'a', 'b' are correct.
(2) 'a', 'b' are wrong.
(3) 'a' is correct but 'b' is wrong.
(4) 'a' is wrong but 'b' is correct.
174. Who is the protector of Constitution?
(1) Legislature
(2) Executive
(3) Judiciary
(4) None of above

175. When did India become a fully democratic republic?
(1) 26 January 1930
(2) 26 January 1940
(3) 26 January 1950
(4) 26 January 1960

176. By which amendment of the Constitution the word 'Secular' is added to the Preamble of Indian Constitution?
(1) 40th
(2) 41st
(3) 42nd
(4) 44th

177. Which article of Indian Constitution provides Freedom of Speech, faith, right to worship and freedom to roam about in India?
(1) Article 14
(2) Article 19
(3) Article 25
(4) Article 10

178. How many members are nominated by the President in Rajya Sabha?
(1) Two
(2) Five
(3) Eight
(4) Twelve

179. Out of the following, to whom the civil cases are related?
(1) For Special people
(2) For officers
(3) For Common people
(4) For Women

180. How many languages have been recognized by the Indian Constitution?
(1) 15
(2) 30
(3) 22
(4) 32
**NMMS**

**DATE OF BIRTH**

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**Category/क्वलिटी**

- GEN मात्र
- SC अन्तर्गत मात्री
- BC भ्रात्री/बहिनी
- Physically Handicapped मलीक विश्वसन

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**MAT**

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**Invigilator's Full Signature**

**Candidate's Full Signature**