

Roll No. :

NMMS(E)

ENGLISH

B

SI No. :

NMMS - NOVEMBER, 2019

**MENTAL ABILITY AND  
SCHOLASTIC APTITUDE TEST**

*Time : Part - I : 90 Minutes*

*Max. Marks : 90*

*Time : Part - II : 90 Minutes*

*Max. Marks : 90*

**Instructions to the Candidates**

Read the following instructions carefully before you answer the questions. Answers are to be SHADDED on a SEPARATE given OMR Answer Sheet with a Black Ball Point Pen. Read the Instructions printed on the OMR Sheet carefully before answering the questions.

1. Please write your Centre Code No. and Roll No. very clearly (only one digit in one block) on the OMR Sheet as given in your admission card. Please see that no block is left unfilled and even Zeros appearing in the Centre Code No. are correctly transferred to the appropriate blocks on the OMR Sheet as shown in the example given in the OMR Sheet. For all subsequent purposes, your Centre Code No. and Roll No. shall remain the same as given on the Admission Card.
2. The Test is in TWO Parts. Part-I consists of 90 questions and Part-II also consists of 90 questions.
3. All questions in Part-I and Part-II carry one mark each.
4. Since all questions are compulsory, do not try to read through the whole question paper before beginning to answer it.
5. Begin with the first question and keep trying one question after another till you finish both the Parts.

6. If you do not know the answer to any question, do not spend much time on it and pass on to next one. If time permits, you can come back to the questions which you have left out in the first instance and try them again.
7. Since the time allotted to the two parts of this question paper is very limited, you should make the best use of it by not spending too much time on any question.
8. A blank page is provided for rough work at the end of each part.
9. Remember, you have to shade answers on a separate OMR sheet provided.
10. Answer to each question is to be indicated by SHADING the circle having the number of the correct alternative in the OMR Sheet from among the ones given for the corresponding question in the booklet.
11. Now turn to the next page and start answering the questions.
12. After the examination, you should hand over the OMR Sheet to the Invigilator of the room.
13. The candidate need not return this Question Paper Booklet and can take it after the completion of the examination. No candidate should leave the examination hall before the end of the examination.

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This Booklet consists of 31 Pages for 180 Questions + 03 Pages of Rough Work + 02 Title Pages i.e. Total 36 Pages

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**Part - I : MENTAL ABILITY TEST**


Time : 90 Minutes

Max. Marks : 90

Note : SHADE the correct alternatives in the OMR Answer Sheet provided from amongst the ones given against the corresponding questions in the Question Paper Booklet. For shading the circles, use a **Black Ball Point Pen**.

**Directions: Questions (1 to 10):**

In these questions a figure (X) is given with three parts and fourth with “?” mark. Find the fourth part from the adjacent figures to complete the figure.

1.     

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

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

2.     

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

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

3.     

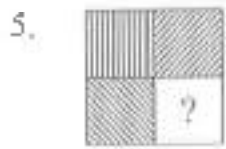
(X) (1) (2) (3) (4)

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

4.     

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

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



(X)

(1) 1



(1)

(2) 2



(2)



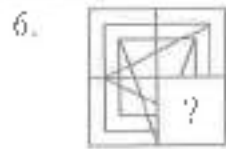
(3)

(3) 3



(4)

(4) 4



(X)

(1) 1



(1)

(2) 2



(2)



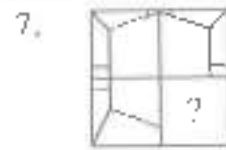
(3)

(3) 3



(4)

(4) 4



(X)

(1) 1



(1)

(2) 2



(2)



(3)

(3) 3



(4)

(4) 4



(X)

(1) 1



(1)

(2) 2



(2)



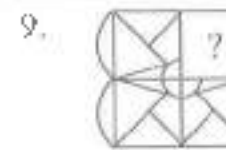
(3)

(3) 3



(4)

(4) 4



(X)

(1) 1



(1)

(2) 2



(2)



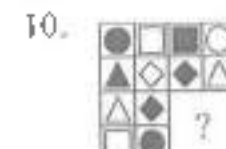
(3)

(3) 3



(4)

(4) 4



(X)

(1) 1



(1)

(2) 2



(2)



(3)

(3) 3



(4)

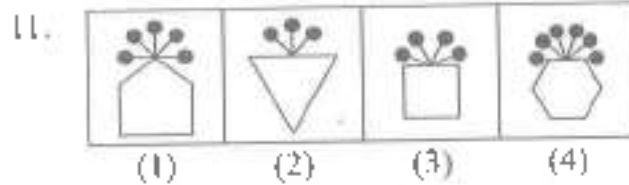
(4) 4

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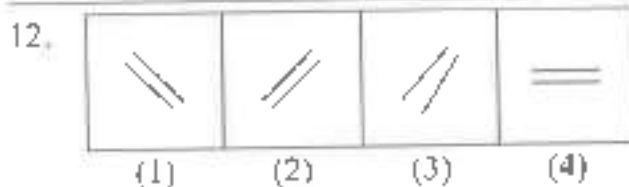
**B**

Directions: Questions (11 to 20):

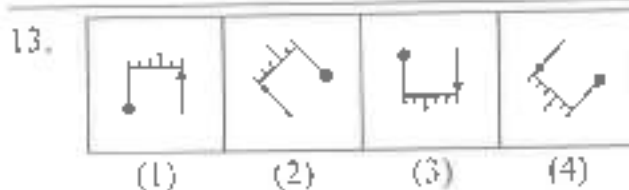
In each problem, out of the four figures marked (1), (2), (3) and (4) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.



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



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



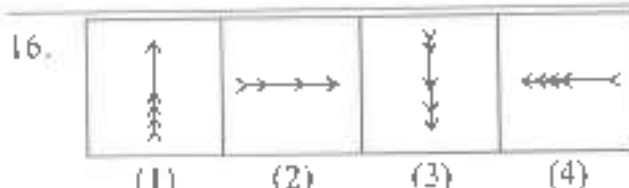
- (1) 1                      (2) 2                      (3) 3                      (4) 4



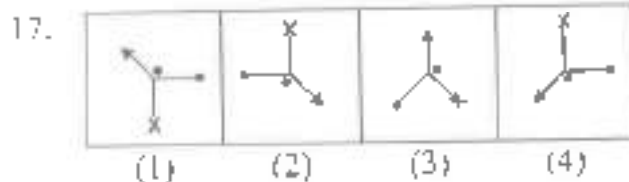
- (1) 1                      (2) 2                      (3) 3                      (4) 4



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



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



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



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



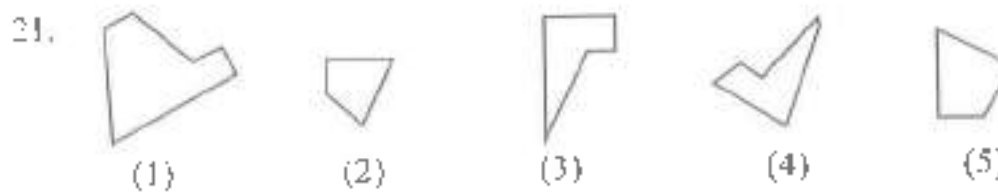
- (1) 1                      (2) 2                      (3) 3                      (4) 4



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

**Directions: Questions (21 to 30):**

In the given five alternative (1), (2), (3), (4), (5) figures, which three can make a square. Find.



- (1) 1, 4, 5                      (2) 2, 4, 5                      (3) 1, 2, 3                      (4) 2, 3, 4



- (1) 1, 2, 4                      (2) 3, 4, 5                      (3) 1, 2, 3                      (4) 1, 3, 5

23.



(1)



(2)



(3)



(4)



(5)

(1) 1, 2, 4

(2) 1, 2, 5

(3) 2, 3, 4

(4) 2, 4, 5

24.



(1)



(2)



(3)



(4)



(5)

(1) 1, 2, 3

(2) 1, 2, 4

(3) 1, 3, 5

(4) 1, 4, 5

25.



(1)



(2)



(3)



(4)



(5)

(1) 1, 3, 4

(2) 3, 4, 5

(3) 2, 3, 4

(4) 1, 3, 5

26.



(1)



(2)



(3)



(4)



(5)

(1) 1, 3, 5

(2) 1, 2, 3

(3) 1, 4, 5

(4) 2, 3, 4

27.



(1)



(2)



(3)



(4)



(5)

(1) 1, 2, 3

(2) 2, 3, 4

(3) 3, 4, 5

(4) 2, 4, 5

28.



(1)



(2)



(3)



(4)



(5)

(1) 1, 2, 3

(2) 2, 3, 4

(3) 1, 3, 4

(4) 2, 3, 5

29.



- (1) 1, 2, 3                      (2) 1, 3, 4                      (3) 1, 3, 5                      (4) 3, 4, 5

30.

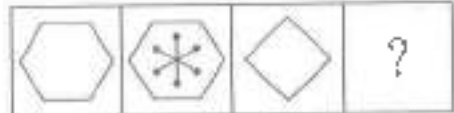


- (1) 1, 2, 3                      (2) 2, 3, 4                      (3) 1, 2, 4                      (4) 2, 4, 5

**Directions: Questions (31 to 40):**

Each of the following questions consist of two sets of figures. Figure A, B, C and D constitute the Problem set while figures 1, 2, 3 and 4 constitute the Answer Set. There is a definite relationship between Figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer Set that would replace the question mark (?) in figure. (D).

31. Problem Figures



(A)      (B)      (C)      (D)

Answer Figures



(1)      (2)      (3)      (4)

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

32. Problem Figures:



(A)      (B)      (C)      (D)

Answer Figures:

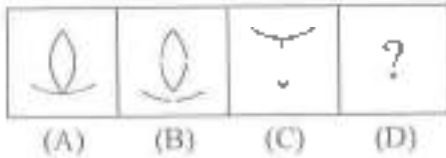


(1)      (2)      (3)      (4)

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



33. Problem Figures:



Answer Figures:



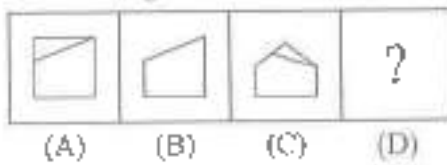
(1) 1

(2) 2

(3) 3

(4) 4

34. Problem Figures:



Answer Figures:



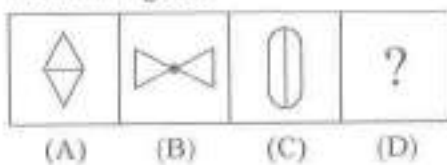
(1) 1

(2) 2

(3) 3

(4) 4

35. Problem Figures:



Answer Figures:



(1) 1

(2) 2

(3) 3

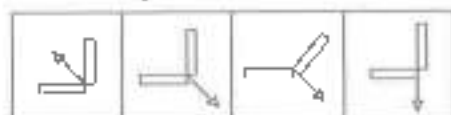
(4) 4

36. Problem Figures:



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

Answer Figures:



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

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

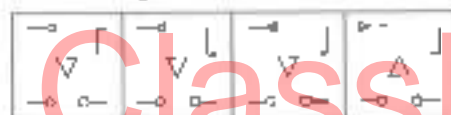
37.

Problem Figures:



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

Answer Figures:

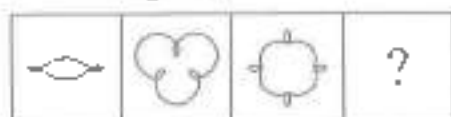


(1) (2) (3) (4)

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

38.

Problem Figures:



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

Answer Figures:



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

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

39. Problem Figures.



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

Answer Figures:



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

(1) 1

(2) 2

(3) 3

(4) 4

40. Problem Figures



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

Answer Figures:



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

(1) 1

(2) 2

(3) 3

(4) 4

**Directions: Questions (41 to 50):**

In the number series given below, one number is missing. Each series is followed by four alternatives (1), (2), (3), (4). One of them is the right answer. Indicate it as per the instructions.

41. 28, 33, 31, 36, ?, 39

(1) 32

(2) 34

(3) 38

(4) 40

42. 125, 80, 45, 20, ?

(1) 5

(2) 8

(3) 10

(4) 12

43. 325, 259, 204, 160, 127, 105,    ?  
 (1) 94                      (2) 96                      (3) 98                      (4) 100

44. 240,    ?, 120, 40, 10, 2  
 (1) 180                      (2) 240                      (3) 420                      (4) 480

45. 2, 7, 27, 107, 427,    ?  
 (1) 1262                      (2) 1707                      (3) 4027                      (4) 4207

46. 45, 54, 47,    ?, 49, 56, 51, 57, 53  
 (1) 48                      (2) 50                      (3) 55                      (4) None

47. 66, 36, 18,    ?  
 (1) 3                      (2) 6                      (3) 8                      (4) 9

48. 20, 20, 19, 16, 17, 13, 14, 11,    ?,    ?  
 (1) 10, 10                      (2) 10, 11                      (3) 13, 14                      (4) 13, 16

49. 1, 9, 25, 49, 81,    ?  
 (1) 100                      (2) 112                      (3) 121                      (4) 125

50. 6, 13, 28, 59,    ?  
 (1) 111                      (2) 113                      (3) 114                      (4) 122

**Directions: Questions (51 to 60):**

In these questions, there are equations that have become wrong due to incorrect order of signs. From the four alternatives given below, find out the correct order of signs. So that the equations become correct.

51.  $95 \times 24 = 4 - 1$   
 (1) -, -, -                      (2) =, ×, -                      (3) +, =,                      (4) ÷, +, -

52.  $8 - 9 = 9 - 81$   
 (1) -, ×, +                      (2) +, -, +                      (3) =, ÷, -                      (4) ×, +, =

53.  $40 - 15 = 3 \times 5$   
 (1) -, +, +                      (2) ÷, +, -                      (3) =, ×, -                      (4) ÷, -, -

54.  $728 \div 8 - 13 - 7$

- (1)  $\div, =, \times$                       (2)  $\times, +, -$                       (3)  $\div, -, +$                       (4)  $+, =, -$

55.  $16 \div 5 - 7 \div 3$

- (1)  $-, +, =$                       (2)  $-, -, +$                       (3)  $+, =, \times$                       (4)  $+, -, -$

56.  $12 \div 8 + 6 \div 576$

- (1)  $\times, \times, =$                       (2)  $=, \times, +$                       (3)  $\div, \div, =$                       (4)  $-, +, +$

57.  $101 + 14 + 7 \div 3$

- (1)  $-, \times, =$                       (2)  $=, -, +$                       (3)  $=, \div, -$                       (4)  $=, \times, \div$

58.  $304 \div 4 - 76 \div 4$

- (1)  $\div, \div, +$                       (2)  $+, =, \times$                       (3)  $\div, +, -$                       (4)  $-, +, \div$

59.  $54 - 5 + 27 \div 10$

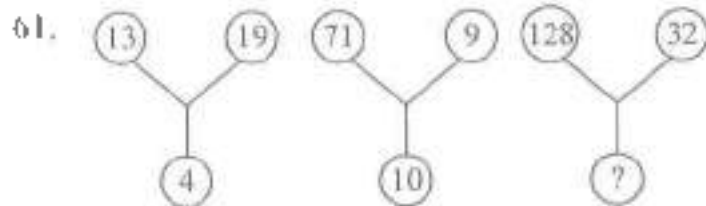
- (1)  $=, +, -$                       (2)  $-, \div, +$                       (3)  $\times, =, \times$                       (4)  $\div, +, \times$

60.  $30 \div 3 + 9 - 3$

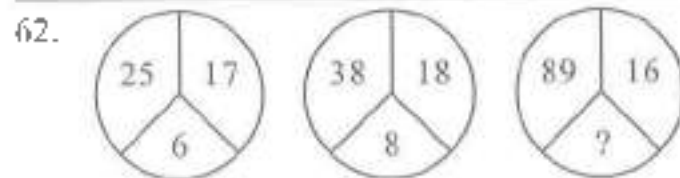
- (1)  $=, +, -$                       (2)  $\div, +, +$                       (3)  $+, -, \times$                       (4)  $-, =, \times$

**Directions: Questions (61 to 70):**

In each of the following questions, a set of figures carrying certain characters is given. Assuming that the characters in each set follow a similar pattern, find the missing character in each case.



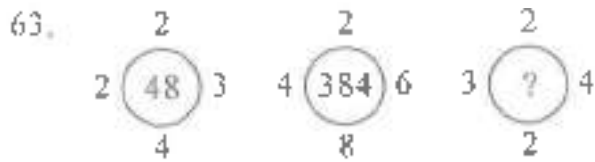
- (1) 10                      (2) 15                      (3) 20                      (4) 25



- (1) 13                      (2) 15                      (3) 17                      (4) 19

NMMS(E)

**B**

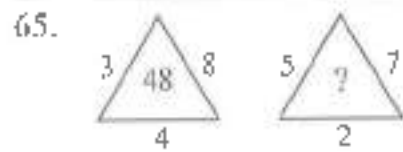


- (1) 42                      (2) 44                      (3) 46                      (4) 48

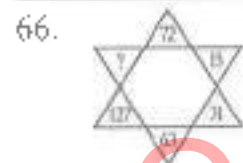
64. 

42	44	38
23	55	28
37	?	39

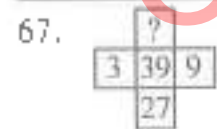
- (1) 22                      (2) 33                      (3) 66                      (4) 77



- (1) 27                      (2) 35                      (3) 54                      (4) 64



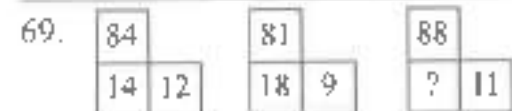
- (1) 190                      (2) 221                      (3) 236                      (4) 255



- (1) 33                      (2) 81                      (3) 243                      (4) 42



- (1) 10                      (2) 12                      (3) 13                      (4) 15



- (1) 16                      (2) 21                      (3) 61                      (4) 81

70.

51	11	61
64	30	32
35	?	43

- (1) 25                      (2) 27                      (3) 18                      (4) 20

**Directions: Questions (71 to 80):**

The following questions are based on simple arithmetic calculations. There are four alternatives given under each question. After identifying the right answer, indicate it as per instructions.

71.  $47638 + 635 - 4125 = ?$   
 (1) 44418                      (2) 41448                      (3) 44158                      (4) 44148

72.  $89765 + 3 \cdot 645 - 1243 + 63 = ?$   
 (1) 89743                      (2) 87943                      (3) 87843                      (4) 87743

73. If  $\frac{x}{\sqrt{28}} = \frac{\sqrt{343}}{x}$  then  $x = ?$   
 (1) 98                      (2) 49                      (3) 14                      (4) 24

74.  $152.435 - 42(0.5 + 987.52) = ?$   
 (1) 709.455                      (2) 708.455                      (3) 719.455                      (4) 718.455

75.  $\frac{43^2 - 34^2}{43 - 34} = ?$   
 (1) 67                      (2) 87                      (3) 77                      (4) 107

76.  $0.007 \times 0.00009 = ?$   
 (1) 0.0063                      (2) 0.000063                      (3) 0.00000063                      (4) 0.0000063

77.  $\sqrt{225} \times 5 + 6 \times 7 - 2^3 = ?$   
 (1) 119                      (2) 109                      (3) 99                      (4) 129

78.  $5.12 + (0.4 \times 0.8) = ?$   
 (1) 6.4                      (2) 164                      (3) 16                      (4) 128

79.  $\frac{5^2 + 12^2}{13} = ?$   
 (1) 13                      (2) 1                      (3) 169                      (4) 17

80.  $3^? + 1 = 244, ? =$   
 (1) 5                      (2) 4                      (3) 3                      (4) 2

**Directions: Questions (81 to 90):**

In each of the following questions, there are a certain relationship between two given words on one side of :: and one word is given on the another side of :: while another word is to be found from the given 4 alternatives, having the same relation with this word as the words of the given pair. Choose the correct alternatives.

81. Cricket : Runs :: Foot ball : ?  
 (1) Points (2) Goals (3) Penalty (4) Left front
- 
82. Slate : Slate Pencil :: Book : ?  
 (1) Pen (2) Rubber (3) Scale (4) Stationary
- 
83. Bone : Skelton :: Blood : ?  
 (1) Eye (2) Ear (3) Vein (4) Skin
- 
84. Hospital : Doctor :: School : ?  
 (1) Lesson (2) Teacher (3) Black Board (4) Book
- 
85. Lock : Key :: Chair : ?  
 (1) Cup (2) Glass (3) Plate (4) Table
- 
86. Circle : Circumference :: Square : ?  
 (1) Perimeter (2) Area (3) Side (4) Length
- 
87. Video : Cassette :: Computer : ?  
 (1) Real (2) Recording (3) Files (4) Floppy
- 
88. Thermometer : Temperature :: Hygrometer : ?  
 (1) Pressure (2) Humidity (3) Density (4) Relative Density
- 
89. Bus : Driver :: Acroplane : ?  
 (1) Pilot (2) Wheeler (3) Watcher (4) None
- 
90. Jaggery : Sweet :: Chilli : ?  
 (1) Sour (2) Salt (3) Hot (4) Bitter
-



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SPACE FOR ROUGH WORK

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**Part - II : SCHOLASTIC APTITUDE TEST**

Time : 90 Minutes

Max. Marks : 90

Note :

i) Subject, Question No. and Marks allotted:

Sl. No.	Subject	Question No.	Marks
1.	Physics	91 to 102	12
2.	Chemistry	103 to 113	11
3.	Biology	114 to 125	12
4.	Mathematics	126 to 145	20
5.	History	146 to 155	10
6.	Geography	156 to 165	10
7.	Political Science	166 to 175	10
8.	Economics	176 to 180	05

ii) **SHADE** the circle having the correct alternatives in the OMR Answer Sheet provided, from amongst the ones given against the corresponding questions in the Question Paper Booklet. For shading the circles, use a **Black Ball Point Pen**.



**NMMS(E)****B**

95. X : Velocity of a Bus is 72 km/hr

Y : Velocity of a Car is 45 m/sec

Z : A Van travelled 60 km in 40 minutes

If X is the velocity of Bus, Y is velocity of Car, Z is velocity of Van.

- (1)  $X < Y < Z$       (2)  $X > Y < Z$       (3)  $X > Y > Z$       (4)  $X < Y > Z$
- 

96. Match the following.

- |  |                                    |
|--|------------------------------------|
| i) Motion of blades of a ceiling fan                         | a) Oscillatory motion              |
| ii) Motion of an arrow from a bow                            | b) Rotatory motion                 |
| iii) Motion of the earth around the sun                      | c) Translatory motion              |
| iv) Motion of the needle in the<br>clothes stitching machine | d) Translatory and rotatory motion |

- (1) i - a    ii - b    iii - c    iv - d  
(2) i - a    ii - c    iii - b    iv - d  
(3) i - b    ii - c    iii - d    iv - a  
(4) i - b    ii - a    iii - d    iv - c
- 

97. Assertion (A) : Electric bulbs in our houses are connected in parallel.

Reason (R) : Bulbs glow brighter when they are connected in parallel.

- (1) Both (A) and (R) are correct  
(2) Both (A) and (R) are incorrect  
(3) (A) is correct, (R) is incorrect  
(4) (A) is incorrect, (R) is correct
- 

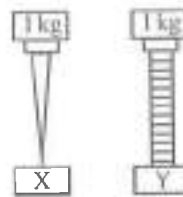
98. Match the following.

- |                 |                                     |
|-----------------|-------------------------------------|
| i) Humidity     | a) Rain gauge                       |
| ii) Rainfall    | b) Six maximum, minimum thermometer |
| iii) Wind speed | c) Hydrometer                       |
| iv) Temperature | d) Anemometer                       |

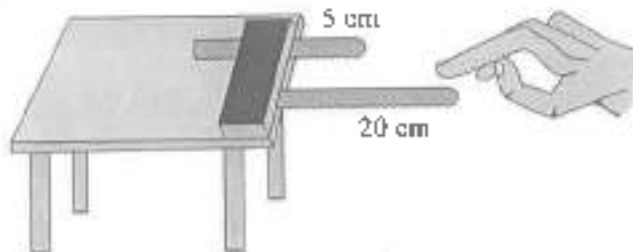
- (1) i - a    ii - b    iii - d    iv - c  
(2) i - c    ii - b    iii - a    iv - d  
(3) i - c    ii - a    iii - d    iv - b  
(4) i - d    ii - c    iii - b    iv - a
-

99. X, Y are the objects having same size and made with same material. A nail of 1 kg on X and a screw of 1 kg on Y are placed on which object the pressure is more

- (1) on X
- (2) on Y
- (3) equal pressure on X and Y
- (4) data is insufficient



100.



Vibrations of hack-saw blades

X is the pitch of the sound produced by the hack-saw blade of 20 cm. in

Y is the pitch of the sound produced by the hack-saw blade of 5 cm in.

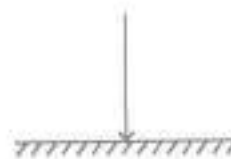
- (1)  $X > Y$
- (2)  $X < Y$
- (3)  $X = Y$
- (4) Pitch does not depend upon the length of the hack-saw blades.

101. Which of the following is incorrect in the case of friction \_\_\_\_\_

- (1) Frictional force is dependent of the area of contact
- (2) Friction is proportional to the normal force
- (3) Friction opposes the relative motion between two surfaces in contact
- (4) Friction depends upon the surfaces which are in contact

102. If the incident ray incident perpendicularly to the plane, then the angle of reflection,

- (1)  $90^\circ$
- (2)  $180^\circ$
- (3)  $0^\circ$
- (4)  $45^\circ$



**CHEMISTRY**

103. Identify the wrong statement.

- (1) The mixture of aluminium and copper is used in the preparation of coins.
- (2) The mixture of gold and copper is used in the preparation of Jewellery.
- (3) The mixture of iron and carbon is used in the preparation of steel
- (4) The mixture of aluminium and carbon is used in the preparation of statues.

104. By sprinkling small quantities of \_\_\_\_\_ in water will prevent browning of vegetables after cutting.

- |                  |                |
|------------------|----------------|
| a) Vinegar       | b) Lemon Juice |
| c) Ascorbic acid | d) Nitric acid |
| (1) a, b, c      | (2) b, c, d    |
| (3) a, c, d      | (4) a, b, d    |

105. Match the following.

- |   |                  |
|---|------------------|
| i)     | a) Wash          |
| ii)    | b) Bleach        |
| iii)  | c) Iron          |
| iv)  | d) Do not bleach |

- (1) i - a    ii - b    iii - c    iv - d
- (2) i - b    ii - c    iii - a    iv - d
- (3) i - b    ii - c    iii - d    iv - a
- (4) i - a    ii - b    iii - d    iv - c

106. Choose the correct statements among the following.

- a) The gas we use in kitchen is in the form of liquid in the cylinder. When it comes out from the cylinder, it becomes a gas. This is a chemical change.
- b) The burning of gas come from the cylinder is a chemical change.
- c) Bacteria digest animal waste and produce biogas. This is a physical change.
- d) The biogas burnt as a fuel is a chemical change.

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

107. For acidity problem doctors prescribe antacid drugs which contain

- |                        |                        |
|------------------------|------------------------|
| a) Magnesium hydroxide | b) Sodium acetate      |
| c) Vinegar             | d) Aluminium hydroxide |
| (1) a and b            | (2) b and c            |
| (3) c and d            | (4) a and d            |

108. Among the following which can not be recycled

- (1) PET
- (2) HDPE
- (3) PS
- (4) LDPE





**BIOLOGY**

114. Which of the following plant produces new plant from the epiphyllous buds (Leaf buds).

- (1) Lilly                      (2) Dahlia                      (3) Strawberry                      (4) Bignonia

115. Match the following.

- |                                    |               |
|------------------------------------|---------------|
| i) Gilebi                          | a) Fungus     |
| ii) Purification of drainage water | b) Loom       |
| iii) Harness                       | c) Haustoria  |
| iv) Parasitic plant                | d) Yeast      |
| v) Cercospora                      | e) Bar screen |

- (1) i - d    ii - e    iii - c    iv - b    v - a  
 (2) i - c    ii - b    iii - d    iv - a    v - e  
 (3) i - a    ii - c    iii - b    iv - d    v - e  
 (4) i - d    ii - e    iii - b    iv - c    v - a

116. Identify the correct statements from the following.

- a) Gaseous exchange in plants occurs only through stomata.  
 b) Insectivorous plants grow only in Nitrogen deficient soils.

- (1) a is true  
     b is also true  
 (2) a is false  
     b is true  
 (3) a is true  
     b is false  
 (4) a is false  
     b is also false

117. Pat is

- (1) a type of silk available in Northern India  
 (2) a type of silk available in Western India  
 (3) a type of silk available in Eastern India  
 (4) a type of silk available in Southern India

118. This cell organelle can be recognised by using Methylene blue solution.

- (1) Nucleolus                      (2) Cell wall                      (3) Nucleus                      (4) Cytoplasm

119. During the confirmation of presence of food components, dark violet coloured substance is formed when it is treated with copper sulphate solution. This determines the presence of this compound

- (1) Fats                      (2) Carbohydrates                      (3) Proteins                      (4) Vitamins

120. Which of the following bases is used as a fire extinguisher?

- (1) Aluminium hydroxide                      (2) Ammonium hydroxide  
 (3) Calcium hydroxide                      (4) Potassium hydroxide

121. Match the following.

- |                                   |   |
|-----------------------------------|---|
| i) Tie and Dye                    | a) Emotions                                       |
| ii) <i>Bacillus thuringiensis</i> | b) Scabies  |
| iii) Jan swanmerdam               | c) Jamadani                                       |
| iv) Adrinalin                     | d) Observation and description of micro organisms |
| v) Micro Arthropoda               | e) Bio pesticide                                  |

- (1) i - d    ii - e    iii - b    iv - a    v - e  
 (2) i - c    ii - e    iii - d    iv - a    v - b  
 (3) i - c    ii - d    iii - e    iv - a    v - b  
 (4) i - d    ii - c    iii - a    iv - e    v - b

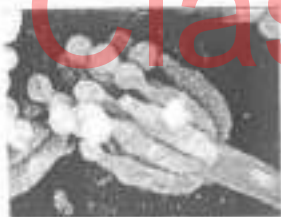
122. Amount of solar energy utilised for purposes of Global heat, evaporation of water on the earth

- (1) 35%                      (2) 8%                      (3) 80-85%                      (4) 50%

123. Which of the following statements is incorrect?

- (1) Red Fox, Lion are the endangered species in India.  
 (2) The Deccan wingless grasshopper is seen only in the Rabi season.  
 (3) Menstrual cycle in woman stops at the age of 45-50.  
 (4) Louis Pasteur discovered the controlling measures for microbial diseases caused to the Silk moth.

124.



The given organism in the above picture is a type of

- (1) Bacterium    (2) Protozoa    (3) Fungus    (4) Algae

125. If Zygote denotes '○'

Seed denotes '△'

New plants denotes '□'

Identify the sequential order of formation.

- (1)    (2)    (3)    (4)

MATHEMATICS

126.  $\sqrt{\frac{0.85 \times (0.105 + 0.024 - 0.008)}{0.022 \times 0.25 \times 1.7}}$

- (1)  $\sqrt{1.1}$                       (2) 11                      (3)  $\sqrt{11}$                       (4)  $\sqrt{0.11}$

127. The ratio of the present ages of two brothers is 1:2 and 5 years back the ratio was 1:3. what will be the ratio of their ages after 5 years

- (1) 1:4                      (2) 2:3                      (3) 3:5                      (4) 5:6

128. A single discount equivalent to two successive discounts of 20% and 5% is

- (1) 25%                      (2) 24%                      (3) 23%                      (4) 26%

129. Two numbers A and B are such that the sum of 5% of A and 4% of B is two-third of the sum of 6% of A and 8% of B, the ratio of A:B is

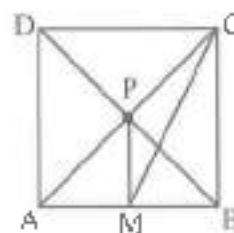
- (1) 2:3                      (2) 1:1                      (3) 3:4                      (4) 4:3

130. If  $y + \frac{1}{y} = -2$  then  $y^{50} - \frac{1}{y^{50}} =$

- (1) 0                      (2) -1                      (3) 2                      (4) 250

131. In the adjacent figure ABCD is a square of side 8 cm and  $PM \perp AB$ , the length of MC =

- (1)  $5\sqrt{5}$  cm  
 (2)  $6\sqrt{5}$  cm  
 (3)  $4\sqrt{5}$  cm  
 (4)  $7\sqrt{5}$  cm



132. If  $\frac{Px}{(b-c)} = \frac{Qy}{(c-a)} = \frac{Rz}{(a-b)}$ , then  $Pax + Qby + Rcz =$

- (1)  $P + Q + R$                       (2)  $x + y + z$                       (3)  $a - b + c$                       (4) 0



138. Which of the following is a solution of  $\frac{2x-5}{3} > \frac{3x+3}{4}$ ?

- (1)  $x = -5$  (2)  $x = -2$   
 (3) both (1) and (2) (4) neither (1) nor (2)

139. The mean of  $a, b$  and  $c$  is same as the mean of  $b, 2c$  and  $d$  then which of the following is correct?

- (1)  $a = b = c$  (2)  $b = c = d$  (3)  $b = c$  (4)  $a = c + d$

140. If  $a = \frac{2x-1}{3}, b = \frac{7-3x}{4}$  and  $\frac{a-b}{5} = 1$  then  $x =$

- (1) 2 (2) 4 (3) 5 (4) 3

141. The value of  $3^{2^{2^{2^x}}} + 8^{2^{2^{2^x}}} =$

- (1) 512 (2) 521 (3) 125 (4) 215

142. The following are the steps involved in finding the values of  $(a^{x+y})^{x-y} (a^{y+z})^{y-z} (a^{z+x})^{z-x}$

Arrange them in sequential order

- a)  $a^{(x-y)(x-y)} a^{(y+z)(y-z)} a^{(z+x)(z-x)}$  b)  $a^0 = 1$   
 c)  $a^{x^2-y^2} \cdot a^{y^2-z^2} \cdot a^{z^2-x^2}$  d)  $a^{x^2-y^2+y^2-z^2+z^2-x^2}$   
 (1) a, d, c, b (2) a, c, b, d (3) a, c, d, b (4) a, d, b, c

143. The values of  $x, y$  and  $z$  in the adjacent diagram

- (1)  $x = 88^\circ, y = 67^\circ, z = 92^\circ$   
 (2)  $x = 92^\circ, y = 88^\circ, z = 67^\circ$   
 (3)  $x = 67^\circ, y = 92^\circ, z = 88^\circ$   
 (4)  $x = 88^\circ, y = 92^\circ, z = 67^\circ$



144. Each side of a triangle is increased by 10 cm. If the ratio of the perimeters of the new triangle and the given triangle is 5:4, the perimeter of the given triangle

- (1) 110 cm (2) 120 cm (3) 100 cm (4) 90 cm

145.  $\sqrt{\frac{3^6 \times 4^7 \times 2^9}{8^6 \times 2^6}} =$

- (1)  $1\frac{1}{8}$  (2)  $\frac{3}{8}$  (3)  $1\frac{1}{3}$  (4)  $\frac{3}{4}$

**HISTORY**

146. The battle of Plassey was fought between

- |                                  |  |
|----------------------------------|--|
| (1) Tipu Sultan and the British  | (2) Muzaffar Jang and the British      |
| (3) Sirajuddaula and the British | (4) The Mughal emperor and the British |

147. The Second World War was broke out in

- |          |          |          |          |
|----------|----------|----------|----------|
| (1) 1914 | (2) 1924 | (3) 1939 | (4) 1929 |
|----------|----------|----------|----------|

148. Name the following coastal district in given Map.

- (1) Guntur  
 (2) Krishna  
 (3) Prakasam  
 (4) Visakhapatnam



149. Match the following.

- |               |                       |
|---------------|-----------------------|
| i) Mansabdar  | a) Hereditary chief   |
| ii) Akbar     | b) Revenue assignment |
| iii) Jagirdar | c) Sulh-i-Kul         |
| iv) Zamindar  | d) Rank               |
- (1) i - d    ii - c    iii - b    iv - a  
 (2) i - a    ii - b    iii - d    iv - c  
 (3) i - a    ii - d    iii - c    iv - b  
 (4) i - b    ii - c    iii - d    iv - a

150. Which part of an inscription is called 'Prashasti'

- |                     |                     |
|---------------------|---------------------|
| (1) invocation part | (2) half-a-part     |
| (3) Third part      | (4) End of the part |

151. Kitab-Al-Hind the arabic book was written by

- |                |                  |
|----------------|------------------|
| (1) Al-Biruni  | (2) Paes         |
| (3) Marco Polo | (4) Abdul Razzak |

152. In 1190 AD a New Kingdom was established in Delhi by

- |              |             |             |            |
|--------------|-------------|-------------|------------|
| (1) Tughluqs | (2) Sultans | (3) Mughals | (4) Lodhis |
|--------------|-------------|-------------|------------|

153. Sri Krishnadevaraya ruled from

- |                       |                       |
|-----------------------|-----------------------|
| (1) 1336 AD - 1357 AD | (2) 1529 AD - 1542 AD |
| (3) 1585 AD - 1614 AD | (4) 1509 AD - 1529 AD |

154. The first Mughal emperor was

- |           |           |             |               |
|-----------|-----------|-------------|---------------|
| (1) Babur | (2) Akbar | (3) Humayun | (4) Shahjahan |
|-----------|-----------|-------------|---------------|

155. Who constructed the Qutub Minar

- |                     |           |
|---------------------|-----------|
| (1) Qutbuddin Aibak | (2) Babur |
| (3) Humayun         | (4) Akbar |



161. The highest peak in Africa is Mount Kilimanjaro in  
 (1) Tanzania (2) Egypt (3) Ethiopia (4) Nigeria
- 
162. From North to South which one of the following is the correct sequence of the given rivers  
 A) Nagavali  
 B) Vamsadhara  
 C) Godavari  
 D) Krishna  
 (1) A, B, C, D (2) B, A, C, D (3) A, B, D, C (4) B, A, D, C
- 
163. A) It is a shiny mineral B) It is used in electrical industry  
 C) It comes in thin layers D) It is a non-conductor of electricity  
 The above statements are related to this mineral  
 (1) Bauxite (2) Mica (3) Asbestos (4) Feldspar
- 
164. Match the following.  
 i) June 21 a) Sun on the Equator  
 ii) March 21 b) Sun on the Equator  
 iii) December 22 c) Sun on the Tropic of Cancer  
 iv) September 23 d) Sun on the Tropic of Capricorn  
 (1) i - c ii - a iii - d iv - b  
 (2) i - a ii - c iii - d iv - b  
 (3) i - a ii - b iii - d iv - c  
 (4) i - c ii - b iii - a iv - d
- 
165. Mr. Ravi wants to know the boundary of Andhra Pradesh, Which of the following map does help him?  
 A) India - Political map  
 B) India - Physical map  
 C) India - Contour lines map  
 (1) (A) only (2) (B) only  
 (3) (C) only (4) (B) and (C) only
-



**POLITICAL SCIENCE**

166. The Governor of the State is appointed by

- |                    |                                    |
|--------------------|------------------------------------|
| (1) Prime Minister | (2) Chief Minister                 |
| (3) President      | (4) Chief Justice of Supreme Court |

167. The first Union Law Minister of Independent India is

- |                              |                                |
|------------------------------|--------------------------------|
| (1) Dr. B.R. Ambedkar        | (2) Smt. Vijaya Lakshmi Pandit |
| (3) Sardar Vallabhbhai Patel | (4) Subhash Chandra Bose       |

168. The constitution of India entrusted the responsibility of conducting elections in India to

- (1) The Supreme Court
- (2) The Election Commission
- (3) Central Government
- (4) The State Government

169. Match the following.

- |                 |  |
|-----------------|--|
| i) Sovereign    | a) Government will not favour any religion         |
| ii) Republic    | b) People have the supreme right to make decisions |
| iii) Fraternity | c) Head of the State is an elected person          |
| iv) Secular     | d) People should live like brothers and sisters    |

- (1) i - b    ii - c    iii - d    iv - a
- (2) i - a    ii - d    iii - b    iv - c
- (3) i - c    ii - b    iii - a    iv - d
- (4) i - d    ii - c    iii - b    iv - a

170. "In politics we will have equality and in social and economic life we will have inequality. In politics we will be recognising the principle of one man one vote and one vote one value. In our social and economic life, we shall, by reason of our social and economic structure, continue to deny the principle of one man one value. How long shall we continue to live this life of contradictions? How long shall we continue to deny equality in our social and economic life? If we continue to deny it for long, we will do so only by putting our political democracy in peril".

Whose statement was it

- |                      |                              |
|----------------------|------------------------------|
| (1) Mahatma Gandhiji | (2) Dr. B.R. Ambedkar        |
| (3) Jawaharlal Nehru | (4) Dr. Babu Rajendra Prasad |

## NMMS(E)

**B**

171. In India any law relating to Money and Banking can only be made by

- (1) Parliament
- (2) Reserve Bank of India
- (3) Election Commission of India
- (4) World Bank

172. Government of Andhra Pradesh enacted the Andhra Pradesh water, Land and Trees Protection Act in

- (1) 1902
- (2) 1985
- (3) 1990
- (4) 2002

173. The drafting committee chair person of the Indian Constitution is

- (1) Dr. B.R. Ambedkar
- (2) Dr. Babu Rajendra Prasad
- (3) Dr. Zaker Hussien
- (4) Dr. Farukh Abdullah

174. Who is the following person is most known for his efforts to educate women and lower castes as well as the masses

- (1) Savitribai Phule
- (2) Periyar E. V. Rama Swami
- (3) Sri Narayana Guru
- (4) Jyotirao Govindrao Phule

175. The most popular folk goddess of Andhra Pradesh is

- (1) Pochamma
- (2) Maisamma
- (3) Gangamma
- (4) Yellamma

## ECONOMICS

176. He devised a method of laying road using broken stones.

- |                         |                       |
|-------------------------|-----------------------|
| (1) Boulton             | (2) George Stephenson |
| (3) John Loudon Mc Adam | (4) James Watt        |
- 

177. Arrange the following stages of paper-making process in correct order.

- A) Cutting
- B) Pressing, drying and rolling
- C) Chipping
- D) Spreading the pulp
- E) Making of wood pulp

- |                   |                   |
|-------------------|-------------------|
| (1) C, E, D, B, A | (2) A, B, C, D, E |
| (3) C, D, B, E, A | (4) A, E, D, B, C |
- 

178. In the Mauryan Period "Pana" was the standard currency. It was made of \_\_\_\_\_

- |            |            |
|------------|------------|
| (1) Gold   | (2) Silver |
| (3) Bronze | (4) Copper |
- 

179. Henry Ford started this method of production to produce more cars quickly.

- |                        |                    |
|------------------------|--------------------|
| (1) Combined Harvester | (2) Assembly line  |
| (3) Barter system      | (4) Factory system |
- 

180. In which position India is the largest producer of medicines in the world.

- |                     |                     |                     |                     |
|---------------------|---------------------|---------------------|---------------------|
| (1) 1 <sup>st</sup> | (2) 2 <sup>nd</sup> | (3) 3 <sup>rd</sup> | (4) 4 <sup>th</sup> |
|---------------------|---------------------|---------------------|---------------------|
- 



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