| Itom 1.00 C | Roll No.: |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|

**ENGLISH** 



Sl No.:

# NMMS - NOVEMBER, 2019

# MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST

Time: Part - I: 90 Minutes

Time: Part - II: 90 Minutes

Max. Marks: 90

Max. Marks: 90

#### Instructions to the Candidates

Read the following instructions carefully before you answer the questions. Answers are to be SHADED 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.

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Contd...



- 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.

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



### 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 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.

| $1_{j_0}$ | 28, 33, 31, 36,?       | _, 39   |                 |     |        |     |        |
|-----------|------------------------|---------|-----------------|-----|--------|-----|--------|
|           | (1) 32                 | (2)     | 34              | (3) | 38     | (4) | 40     |
| 2.        | 125, 80, 45, 20,?      |         |                 |     |        |     |        |
|           | (1) 5                  | (2)     | 8               | (3) | 10     | (4) | 12     |
| 3.        | 325, 259, 204, 160,    | 127,    | 105,?           |     |        |     |        |
|           | (1) 94                 |         |                 | (3) | 98     | (4) | 100    |
| 4.        | 240,, 120, 40          | , 10, 2 | 2               |     |        |     |        |
|           | (1) 180                |         |                 | (3) | 420    | (4) | 480    |
| 5         | 2, 7, 27, 107, 427, _  | ?       |                 |     |        |     |        |
|           | (1) 1262               |         | 1707            | (3) | 4027   | (4) | 4207   |
| 6,        | 45, 54, 47,?, 49       | 9, 56,  | 51, 57, 53      |     |        |     |        |
|           | (1) 48                 | (2)     | 50              | (3) | 55     | (4) | None   |
| 7.        | 66, 36, 18,?           |         |                 |     |        |     |        |
|           | (1) 3                  | (2)     | 6               | (3) | 8      | (4) | 9      |
| 8.        | 20, 20, 19, 16, 17, 13 | 3, 14,  | 11, _ ? _ , _ ? |     |        |     |        |
|           | (1) 10, 10             |         |                 |     | 13, 14 | (4) | 13, 16 |
| 9.        | 1, 9, 25, 49, 81, ?    |         |                 |     |        |     |        |
|           | (1) 100                |         | 112             | (3) | 121    | (4) | 125    |



- 10. 6, 13, 28, 59, ?
  - (1) 111
- (2) 113
- (3) 114
- (4) 122

#### Directions: Questions (11 to 20):

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.

- 11.  $95 \times 24 = 4 1$ 
  - (1) -, +, =
- $(2) = \times, -$
- (3) +, =, -
- (4) ÷, +, -

- 12.  $8 \div 9 = 9 81$ 
  - (1) -, ×, +
- (2) +, -, ÷
- (3) = +, -
- $(4) \times, +, =$

- 13.  $40 + 15 = 3 \times 5$ 
  - (1) -, +, ÷
- $(2) \div, +, -$
- $(3) =, \times, -$
- $(4) \times, +, -$

- 14. 728 = 8 + 13 7
  - $(1) \quad \div, =, \times$
- (2) ×, ÷, –
- (3) -, +, ÷
- (4) +, =, -

- 15. 16 = 5 7 + 3
  - (1) -, +, =
- (2) +, -, ÷
- $(3) +, =, \times$
- (4) ÷, -, +

- 16.  $12 8 + 6 \div 576$ 
  - (1)  $\times$ ,  $\times$ , =
- $(2) = , \times , +$
- (3) +, +, =
- (4) -, +, ÷

- 17.  $101 + 14 + 7 \div 3$ 
  - (1) -,  $\times$ , =
- (2) = + +
- (3) = +, -
- $(4) = , \times , +$

- 18.  $304 + 4 76 \div 4$ 
  - (1) -, ÷, +
- (2)  $\div$ ,=,×
- (3) = +, -
- (4) -, +, ÷

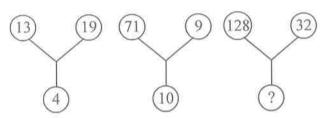
- 19.  $54 5 + 27 \div 10$ 
  - (1) = +, -
- (2) -, ÷, +
- (3)  $\times$  =  $\times$
- (4)  $\div$ , +,  $\times$

- 20.  $30 \div 3 + 9 3$ 
  - (1) =, +, -
- (2) -, ÷, +
- (3) +, -, ×
- (4) –, =, ×

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

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.

21.

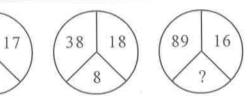


(1) 10

25

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

22.



(1) 13

6

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

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

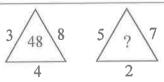
 24.
 42
 44
 38

 23
 55
 28

 37
 ?
 39

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

25.



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

26.



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



- 27. ? 3 39 9 27
  - (1) 33
- (2) 81
- (3) 243
- (4) 42

28.



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

29. **84** 14 12

(1)

- 81 2 18 9
- 88 ? 11 (2) 21
- (3) 61
- (4) 81

- 30.
   51
   11
   61

   64
   30
   32

   35
   ?
   43
  - (1) 25
- (2) 27
- (3) 18
- (4) 20

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

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.

- 31. 47638 + 635 4125 = ?
  - (1) 44418
- (2) 41448
- (3) 44158
- (4) 44148

- 32. 89765 + 3 645 1243 + 63 = ?
  - (1) 89743
- (2) 87943
- (3) 87843
- (4) 87743

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

- $34. \quad 152.435 420.5 + 987.52 = ?$ 
  - (1) 709.455
- (2) 708.455
- (3) 719.455
- (4) 718.455

- $35. \quad \frac{43^2 34^2}{43 34} =$ 
  - (1) 67
- (2) 87
- (3) 77
- (4) 107



- 36.  $0.007 \times 0.00009 = ?$ 
  - (1) 0.0063
- (2) 0.000063
- (3) 0.00000063
- (4) 0.0000063

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

- 38.  $5.12 \div (0.4 \times 0.8) = ?$ 
  - (1) 6.4
- (2) 164
- (3) 16
- (4) 128

- $39. \quad \frac{5^2 + 12^2}{13} = ?$ 
  - (1) 13
- (2) 1
- (3) 169
- (4) 17

- 40.  $3^? + 1 = 244, ? =$ 
  - (1) 5
- (2) 4
- (3) 3
- (4) 2

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

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.

- 41. Cricket: Runs:: Foot ball:?
  - (1) Points
- (2) Goals
- (3) Penalty
- (4) Left front

- 42. Slate: Slate Pencil:: Book:?
  - (1) Pen
- (2) Rubber
- (3) Scale
- (4) Stationary

- 43. Bone: Skelton::Blood:?
  - (1) Eye
- (2) Ear
- (3) Vein
- (4) Skin

- 44. Hospital: Doctor:: School:?
  - (1) Lesson
- (2) Teacher
- (3) Black Board
- (4) Book

- 45. Lock: Key:: Chair:?
  - (1) Cup
- (2) Glass
- (3) Plate
- (4) Table

- 46. Circle: Circumference:: Square:?
  - (1) Perimeter
- (2) Area
- (3) Side
- (4) Length

- 47. Video: Cassette:: Computer:?
  - (1) Real
- (2) Recording
- (3) Files
- (4) Floppy



Thermometer: Temperature:: Hygrometer:?

- Pressure
- (2) Humidity
- (3) Density
- (4) Relative Density

Bus: Driver:: Aeroplane:?

- (1) Pilot
- (2) Wheeler
- (3) Watcher
- (4) None

Jaggery: Sweet:: Chilli:? 50.

- Sour
- (2)
- (3) Hot
- (4) Bitter

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

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.

51.



(X)



(1)



(2)



(3)

(3) 3



(4)

(1) 1





(1)



(2)

(2)

2

2

(2)



(3)



(4)

(3) 3

(4) 4

(4) 4

53.

52.



(X)

(1) 1

(X)



(1)



(2)



(3)



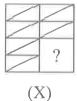
(4)

(1) 1

(2) 2 (3) 3

(4) 4

54.





(1)



(2)



(3)



(1) 1

(2) 2

(3) 3

(4)

(4)

4



55.



(X)





(1)

(2) 2



(2)



(3) (3) 3



(4)

(4) 4

56.



(X) (1) 1



(1)

(2)

2

2

2

2



(2)



(3) (3) 3



(4)

(4) 4

57.



(X) (1) 1



(1) (2)



(2)



(3) (3) 3



(4) (4) 4

58.



(X) (1) 1



(1) (2)



(2)

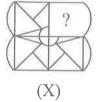


(3) (3) 3



(4) (4) 4

59.



(1) 1



(1) (2)



(2)



(3) (3) 3



(4)

(4) 4

60.



(X) (1) 1



(2) 2



(2)



(3)

(3) 3



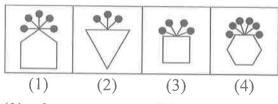
(4)



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

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

61.



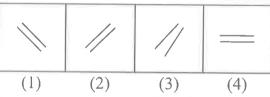
(1) 1

(2) 2

(3) 3

(4) 4

62.



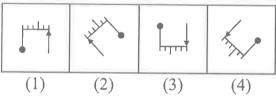
(1) 1

(2) 2

(3) 3

(4) 4

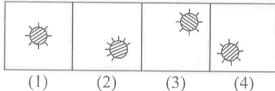
63.



(1) 1 (2) 2

(3) 3 (4) 4

64.



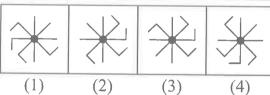
(1) 1

(2) 2

(3) 3

(4) 4

65.



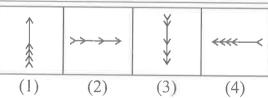
(1) 1

(2) 2

(3) 3

(4) 4

66.

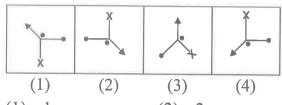


(1) 1 (2) 2

(3) 3

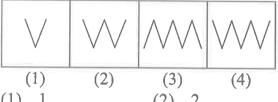


67.

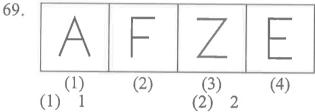


- (1) 1
- (2) 2
- (3) 3
- (4) 4

68.

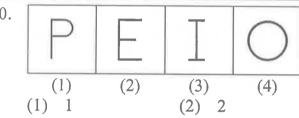


- (1) 1
- (2) 2
- (3) 3
- (4) 4



- (3) 3
- (4) 4

70.



- (3) 3
- (4) 4

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

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

71.



(1)



(2)



(3)



(4)



(5)

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

72.



(1)



(2)



(3)





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



73.



(2)



(4)



(5)

(1) 1, 2, 4

(2) 1, 2, 5

(3) 2, 3, 4

(4) 2, 4, 5

74.



(2)



(4)



(5)

(1) 1, 2, 3

(2) 1, 2, 4

(3) 1, 3, 5

(4) 1, 4, 5

75.





 $\triangle$ 



(1)

(2)

(3)

(4)

(5)

(1) 1, 3, 4

(2) 3, 4, 5

(3) 2, 3, 4

(4) 1, 3, 5

76.



(1)

П

(2)



(3)



(5)

(1) 1, 3, 5

(2) 1, 2, 3

(3) 1, 4, 5

(4)

(4) 2, 3, 4

 $77_{\text{t}}$ 



(1)

(1) 1, 2, 3



(2)



(3)

2, 3, 4



(4)



(3) 3, 4, 5

(4) 2, 4, 5

78.



(1)



(2)

(2)



(3)



(4)



(5)

(1) 1, 2, 3

(2) 2, 3, 4

(3) 1, 3, 4

(4) 2, 3, 5



79.



(2)



(4)



(1) 1, 2, 3

(2) 1, 3, 4

(3) 1, 3, 5

(4) 3, 4, 5

80.



(2)



(4)

(5)

(1) 1, 2, 3

(2) 2, 3, 4

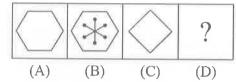
(3) 1, 2, 4

(4) 2, 4, 5

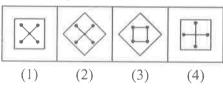
#### Directions: Questions (81 to 90):

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).

#### 81. Problem Figures:



#### Answer Figures:



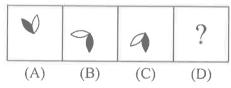
(1) 1

(2) 2

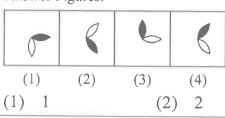
(3) 3

(4) 4

#### 82. Problem Figures:

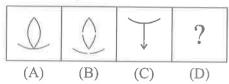


#### Answer Figures:

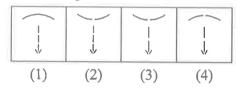


(3) 3

#### 83. Problem Figures:

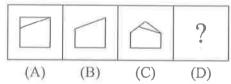


#### Answer Figures:

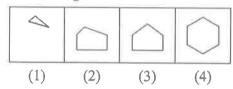


- (1) 1
- (2) 2
- (3) 3
- (4) 4

#### 84. Problem Figures:

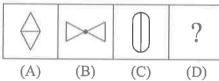


Answer Figures:

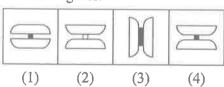


- (1) 1
- (2) 2
- (3) 3
- (4) 4

### 85. Problem Figures:



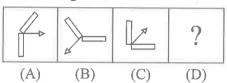
#### Answer Figures:



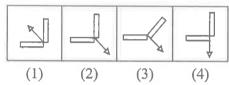
- (1) 1
- (2) 2
- (3) 3
- (4) 4



86. Problem Figures:

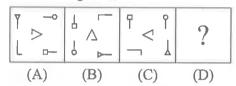


Answer Figures:

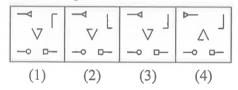


- (1) 1
- (2) 2
- (3) 3
- (4) 4

87. Problem Figures:

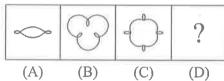


Answer Figures:

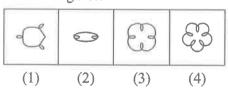


- (1) 1
- (2) 2
- (3) 3
- (4) 4

88. Problem Figures:



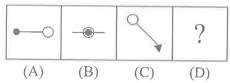
Answer Figures:



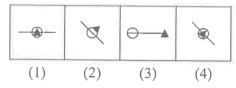
- (1) 1
- (2) 2
- (3) 3
- (4) 4



89. Problem Figures:

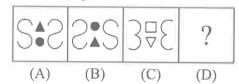


Answer Figures:

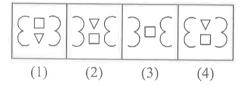


- (1) 1
- (2) 2
- (3) 3
- (4) 4

90. Problem Figures:



Answer Figures:



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



### SPACE FOR ROUGH WORK



### SPACE FOR ROUGH WORK



# 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 |  |  |
|-------------|-------------------|--------------|-------|--|--|
| $1_{\odot}$ | 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**.

#### **PHYSICS**

- 91. 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
- $(4) \quad X < Y > Z$

- 92. Match the following.
  - i) Motion of blades of a ceiling fan
  - ii) Motion of an arrow from a bow
  - iii) Motion of the earth around the sun
  - iv) Motion of the needle in the clothes stitching machine
  - (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

- a) Oscillatory motion
- b) Rotatory motion
- c) Translatory motion
- d) Translatory and rotatory motion

93. 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

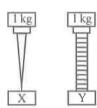
- 94. Match the following.
  - i) Humidity
  - ii) Rainfall
  - iii) Wind speed
  - iv) Temperature
  - (1) i a ii b iii d iv c
  - (2) i c ii b iii a iv d
  - (3) i-c ii-a iii-d iv-b
  - (4) i d ii c iii b iv a

- a) Rain gauge
- b) Six maximum, minimum thermometer
- c) Hydrometer
- d) Anemometer

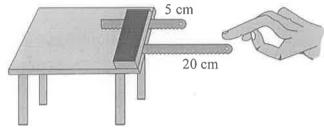


95. X, Y are the objects having same size and made with same material. A nail of 1 kg on X and a screw of 1 kg on Y are placed on which object the pressure is more

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



96.



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.

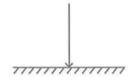
- (1) X>Y
- (2) X < Y
- (3) X = Y
- (4) Pitch does not depend upon the length of the hack-saw blades.

97. 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

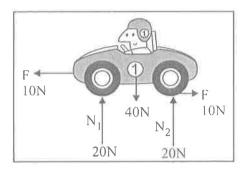
98. If the incident ray incident perpendicularly to the plane, then the angle of reflection.

- (1) 90°
- (2) 180°
- (3) 0°
- (4) 45°



99.

Left side



Right side

Motion of the car in which direction

(1) towards right

(2) towards left

(3) upwards

(4) car won't move

100. Mirrors which form only virtual images \_\_\_\_\_

- (1) plane mirror, convex mirror
- (2) concave mirror, plane mirror
- (3) convex mirror, concave mirror
- (4) only concave mirror

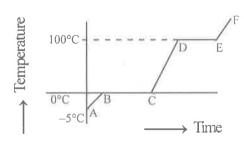
101. The liquid used in six maximum, minimum thermometer is \_\_\_\_\_

- (a) Water
- (b) Mercury
- (c) Alcohol
- (d) Air
- (1) a and b
- (2) b and c
- (3) c and d
- (4) a and d

102. −5°C ice is heated upto it become vapour

If the observations are plotted in the given below graph. Which parts of the graph represents the process of melting and boiling respectively.

- (1) AB, BC
- (2) BC, DE
- (3) CD, DE
- (4) None of the above





#### **CHEMISTRY**

- 103. 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

- 104. Among the following which can not be recycled
  - (1) PET
- (2) HDPE
- (3) PS
- (4) LDPE

- 105. Match the following.
  - i) Removing of grease, oil stains
  - ii) Fire extinguisher
  - iii) Removal of ink stains
  - iv) Cool drinks
  - (1) i-a ii-b iii-c iv-d
  - (2) i-b ii-a iii-d iv-c
  - (3) i-c ii-a iii-b iv-d
  - (4) i-a ii-b iii-d iv-c

- a) Aluminium hydroxide
- b) Oxalic acid
- c) Ammonium hydroxide
- d) Carbonic acid

| 106. |                      | Methyl orange | Phenolphthalein | Turmeric solution |  |
|------|----------------------|---------------|-----------------|-------------------|--|
|      | Lemon Juice          | red           | colourless      | Z                 |  |
|      | Detergent soap water | yellow        | Y               | Red               |  |
|      | Distilled water      | X             | colourless      | yellow            |  |

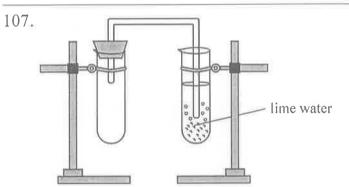
The colours X, Y, Z are

(1) red, colourless, red

(2) yellow, colourless, pink

(3) yellow, pink, yellow

(4) red, pink, red



Due to release of \_\_\_\_\_ gas lime water turned milky white. The milky white substance contains \_\_\_\_\_

- (1) oxygen, calcium oxide
- (2) Hydrogen, calcium carbonate
- (3) Carbon dioxide, calcium carbonate
- (4) Oxygen, calcium carbonate



| 108. P: Thermoplastics soften when heated.  Q: Thermosetting plastics which moulded once can't be softened by heating. |                                      |                |                            |                                  |                            |           |  |                   |               |        |
|--|--------------------------------------|----------------|----------------------------|----------------------------------|----------------------------|-----------|--|-------------------|---------------|--------|
|  | -                                    | P is cor       |                            |                                  |                            |           | P and Q are in   |                   |               |        |
|  | , ,                                  | P is inc       |                            |                                  |                            | ` '       | P and Q are co   |                   |               |        |
| 109.   | Arra                                 | nge the r      | netals co                  | opper, ir                        | on, Zinc in de             | escend    | ing order accord   | ling to           | their reactiv | ity    |
|  | (1)                                  | -              | on, Copp                   |                                  |                            |           | Iron, Zinc, Coj  |                   |               |        |
|  | (3)                                  | Copper         | , Zinc, Ir                 | on                               |                            | (4)       | Zinc, Copper,  | Iron              |               |        |
| 110.   | (1)<br>(2)                           | The mix        | xture of xture of xture of | aluminiu<br>gold and<br>iron and | copper is us carbon is use | ed in the | ed in the preparation on the preparation of the pre | f Jewe<br>f steel | llery.        |        |
| 111.   | 1. By sprinkling small quantities of |                |                            |                                  |                            |           | ater will preven   | t browi           | ning of vege  | tables |
|  |                                      | cutting.       |                            |                                  |                            | 1.        | T  |                   |               |        |
|  | a)                                   | Vinegar        |                            |                                  |                            | b)        | Lemon Juice  |                   |               |        |
|  | c)<br>(1)                            | Ascorb a, b, c | ic acid                    | (2) b                            | c d                        | d)<br>(3) | Nitric acid a, c, d  | (4)               | a, b, d       |        |
|  | (1)                                  | a, o, c        |                            | (2) 0,                           |                            |           |  | (')               |               |        |
| 112.   | Mate                                 | ch the fol     | llowing.                   |                                  |                            |           |  |                   |               |        |
|  | i)                                   | $\triangle$    |                            |                                  |                            | a)        | Wash   |                   |               |        |
|  | ii)                                  |                |                            |                                  |                            | b)        | Bleach   |                   |               |        |
|  | iii)                                 | $\[ \] $       |                            |                                  |                            | c)        | Iron   |                   |               |        |
|  | iv)                                  | $\bigotimes$   |                            |                                  |                            | 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          |                            |                                  |                            |           |  |                   |               |        |
|  | (4)                                  | i - a          | ii - b                     | iii - d                          | iv - c                     |           |  |                   |               |        |
| 113.   | Cho                                  | ose the c      | orrect st                  | atement                          | s among the                | follow    | ing.   |                   |               |        |
|  | a)                                   | _              |                            |                                  |                            |           | iquid in the cyli<br>a chemical char   |                   | When it com   | es out |
|  | 1.                                   | FD1 1          |                            | -                                | C (1                       | 12 1      | . 1 . 1 1  | _                 |               |        |

- 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

### **BIOLOGY**

| 114. | Duri          | ng the c  | onfirmat                                | tion of | presence    | of food      | com        | ponents, dark           | violet co   | loured su   | bstance   |
|------|---------------|-----------|---|---------|-------------|--------------|------------|-------------------------|-------------|-------------|-----------|
|      |               |           |   | treated | with cop    | per sui      | pnate      | solution. Th            | is determ   | mes me p    | reserice  |
|      |               | is comp   | ouna                                    | (2)     | Carbohyo    | Irotac       | (3)        | Proteins                | (4)         | Vitamins    | 3         |
|      | `             | Fats      | 0.44                                    | (2)     |             |              |            |                         | (1)         | V Italiiiii | ,         |
| 115. |               |           |   |         |             | as a III     |            | inguisher?              | hudnovid    | 0           |           |
|      | (1)           |           | nium hy                                 |         | 9           |              | (2)<br>(4) | Ammonium<br>Potassium h |             |             |           |
|      | (3)           |           | m hydrox                                |         |             |              | (+)        | 1 Otassium n            | iy di Oxide |             |           |
| 116. |               |           | llowing.                                | •       |             |              | - )        | Emations                |             |             |           |
|      | i)            | Tie and   | -                                       |         |             |              | a)         | Emotions                |             |             |           |
|      | ii)           |           | is thuring                              | _       |             |              | b)         | Scabies                 |             |             |           |
|      | iii)          | Jan swa   | ammerda                                 | am      |             |              | c)<br>d)   | Jamadani                |             |             | 0 .       |
|      | iv) Adrinalin |           |   |         |             |              |            | Observation organisms   | n and des   | cription (  | of micro  |
|      | v)            | Micro     | Arthropo                                | oda     |             |              | e)         | Bio pesticio            | de          |             |           |
|      | (1)           | i - d     | ii - e                                  | iii - t | iv-a        | V - C        |            |                         |             |             |           |
|      | (2)           | i - c     | ii - e                                  | iii - c | l iv-a      | v-b          |            |                         |             |             |           |
|      | (3)           | i - c     | ii - d                                  | iii - e | e iv-a      | v-b          |            |                         |             |             |           |
|      | . ,           | i - d     | ii - c                                  | iii - a |             | v <b>-</b> b |            |                         |             |             |           |
| 117. | Am            | ount of s | solar ene                               | rgy uti | lised for p | ourpose      | es of      | Global heat, e          | evaporatio  | on of wate  | er on the |
| 11/1 | eart          |           | , | -0,     |             | 1            |            |                         | -           |             |           |
|      | (1)           |           |   | (2)     | 8%          |              | (3)        | 80-85%                  | (4)         | 50%         |           |
| 118. | Whi           |           |   |         | tements i   |              |            |                         |             |             |           |
|      | (1)           | RedFo     | ox, Lion                                | are the | endanger    | red spe      | cies i     | n India.                |             |             |           |
|      | (2)           |           |   |         |             |              |            | only in the Ra          | bi season   | •           |           |
|      | (3)           | Menst     | rual cyc                                | le in w | oman stop   | os at th     | e age      | of 45-50.               | .ionoloio1  | dianana     | ougad to  |
|      | (4)           |           |   | discov  | ered the c  | ontroll      | ing n      | neasures for n          | ncrobiai    | uiseases c  | auseu to  |
|      |               | the Sil   | k moth.                                 |         |             |              |            |                         |             |             |           |
| 119  | 9             |           |   |         |             |              |            |                         |             |             |           |
|      |               | _         | _                                       |         | above pic   |              |            |                         | (4)         | A 1000      |           |
|      | (1)           | Bacte     | rium                                    | (2)     | Protozo     | a            | (3)        | Fungus                  | (4)         | Algae       |           |
|      |               |           |   |         |             |              |            |                         |             |             |           |

| 120. | If Zy                    | gote der                | notes '                                | )*                   |  |                                  |                      |                                      |                   |                     |
|------|--------------------------|-------------------------|--|----------------------|--|----------------------------------|----------------------|--------------------------------------|-------------------|---------------------|
|      | Seed                     | denotes                 | ·\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |                      |  |                                  |                      |                                      |                   |                     |
|      | New                      | plants d                | enotes '[                              | 7                    |  |                                  |                      |                                      |                   |                     |
|      | Iden                     | tify the s              | equentia                               | —<br>al orde         | r of forma   | ation.                           |                      |                                      |                   |                     |
|      | (1)                      |                         |  | (2) (                | 1 2 3  |                                  | (3)                  | 1 2/                                 | (4)               | 1<br>3 <sup>2</sup> |
| 121. | Whi                      | ch of the               | followi                                |                      |  | es new                           |                      |                                      |                   | ouds (Leaf buds).   |
|      | (1)                      | Lilly                   |  | (2)                  | Dahlia   |                                  | (3)                  | Strawberry                           | (4)               | Bignonia            |
| 122. | i)<br>ii)<br>iii)        | Harnes                  | ation of                               | drainag              | ge water   |                                  | a)<br>b)<br>c)<br>d) | Fungus<br>Loom<br>Haustoria<br>Yeast |                   |                     |
|      | iv)<br>v)                | Parasit<br>Cercos       | _                                      |                      |  |                                  | e)                   | Bar screen                           |                   |                     |
|      | (1)                      | i - d<br>i - c<br>i - a | ii - e                                 | iii - d<br>iii - b   | iv - a<br>iv - d                                     | v - a<br>v - e<br>v - e<br>v - a |                      |                                      |                   |                     |
| 123  |                          |                         |  |                      | nts from   | the fol                          | lowir                |                                      |                   |                     |
| 125. | a)                       |                         |  |                      |  |                                  |                      | ough stomata                         | •                 |                     |
|      | b)                       |                         |  |                      |  |                                  |                      | deficient soil                       |                   |                     |
|      | (1)                      | a is tru<br>b is als    | е                                      |                      | ·  |                                  |                      |                                      |                   |                     |
|      | (2)                      | a is fal<br>b is tru    | se                                     |                      |  |                                  |                      |                                      |                   |                     |
|      | (3)                      | a is tru<br>b is fal    |  |                      |  |                                  |                      |                                      |                   |                     |
|      | (4)                      | a is fal<br>b is als    | se<br>so false                         |                      |  |                                  |                      |                                      |                   |                     |
| 124. | Pat                      | is                      |  |                      |  |                                  |                      |                                      |                   |                     |
|      | (1)<br>(2)<br>(3)<br>(4) | a type                  | of silk av<br>of silk av               | vailable<br>vailable | e in North<br>e in Weste<br>e in Easte<br>e in South | ern Ind<br>rn Indi               | ia<br>a              |                                      |                   |                     |
| 125  | Thi (1)                  | s cell org              |  | an be r<br>(2)       | ecognise<br>Cell wal                                 |                                  | ing N<br>(3)         | Iethylene blue<br>Nucleus            | e solution<br>(4) | ı.<br>Cytoplasm     |

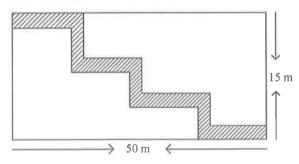
#### **MATHEMATICS**

- 126. If  $x = (-1)^1 + (-1)^2 + ... + (-1)^{2019}$  and
  - $y = (-1)^{1} (-1)^{2} + ... + (-1)^{2019}$  then x y is
- (2) 2018
- 1014 (4)

- 127. If  $\frac{a}{b} = \frac{x}{y} = \frac{p}{q}$  then  $\frac{6a + 9x + 2p}{6b + 9y + 2q} =$ 

  - $(1) \quad \frac{a}{b} \qquad \qquad (2) \quad \frac{x}{y}$
- (3)  $\frac{p}{a}$
- (4) All of these
- 128. If  $7^{a^b} = 2401$  where a and b are positive integers and  $a \ne 1$ , then which of the following is (are) correct?
  - a = bI)
  - II) a > b
  - III) a < b
  - (1) Either I or III
- (2) Either II or III (3) Either I or II (4) I only

- 129. Find the total cost of levelling the shaded path of uniform width 2 m laid in the rectangular field shown below, if the rate per m<sup>2</sup> is ₹ 100



- (1) ₹ 12600
- ₹ 16200 (2)
- (3) ₹ 13000
- ₹ 12000 (4)
- 130. 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)
- 131. 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
- $(4) \quad a = c + d$



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

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

133. The value of 
$$3^{2^{40^{7^8}}} + 8^{3^{2^{0^{4^7}}}} =$$

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

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

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

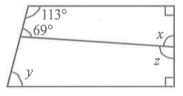
135. The values of 
$$x$$
,  $y$  and  $z$  in the adjacent diagram

(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) 
$$x = 88^{\circ}, y = 92^{\circ}, z = 67^{\circ}$$



- 136. 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
- 120 cm (2)
- 100 cm
- 90 cm

137. 
$$\sqrt[3]{\frac{3^6 \times 4^3 \times 2^9}{8^6 \times 2^6}} =$$

- (1)  $1\frac{1}{9}$
- (3)  $1\frac{1}{3}$

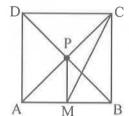
138. 
$$\sqrt{\frac{0.85 \times (0.105 + 0.024 - 0.008)}{0.022 \times 0.25 \times 1.7}}$$

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



- 139. 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
- 140. A single discount equivalent to two successive discounts of 20% and 5% is
  - (1) 25%
- (2)24%
- 23% (3)
- (4) 26%
- 141. 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

- 142. If  $y + \frac{1}{y} = -2$  then  $y^{50} \frac{1}{y^{50}} =$ 
  - (1) 0
- (2) -1
- (3) 2
- 250 (4)
- 143. 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



- 144. 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

145. Statement (A):  $(1024)^{0.4} = 16$ 

Statement (B):  $(16)^{1.25} = 32$ 

- (1) Both the statements (A) and (B) are correct
- (2) Both the statements (A) and (B) are incorrect
- (3) (A) is correct, (B) is incorrect
- (4) (A) is incorrect, (B) is correct

### **HISTORY**

| 146. | Whi     | ch part of an inscription is calle      | d 'Prashasti' |                 |       |                 |
|------|---------|---|---------------|-----------------|-------|-----------------|
|      | (1)     | invocation part                         | (2)           | half-a-part     |       |                 |
|      | (3)     | Third part                              | (4)           | End of the part |       |                 |
| 147. | Kita    | b-Al-Hind the arabic book was v         | written by    | =               |       |                 |
|      | (1)     | Al-Biruni                               | (2)           | Paes            |       |                 |
|      | (3)     | Marco Polo                              | (4)           | Abdul Razzak    |       |                 |
| 148. | In 11   | 90 AD a New Kingdom was est             | ablished in D | elhi by         |       |                 |
|      | (1)     | Tughluqs (2) Sultans                    | (3)           | Mughals         | (4)   | Lodhis          |
| 149. | Sri K   | Crishnadevaraya ruled from              |               |                 |       |                 |
|      | (1)     | 1336 AD - 1357 AD                       | (2)           | 1529 AD - 1542  | AD    |                 |
|      | (3)     | 1585 AD - 1614 AD                       | (4)           | 1509 AD - 1529  | AD    |                 |
| 150. | The     | first Mughal emperor was                |               |                 |       |                 |
|      | (1)     | Babur (2) Akbar                         | (3)           | Humayun         | (4)   | Shahjahan       |
| 151. | Who     | constructed the Qutub Minar             |               |                 |       |                 |
|      | (1)     | Qutbuddin Aibak                         | (2)           | Babur           |       |                 |
|      | (3)     | Humayun                                 | (4)           | Akbar           |       |                 |
| 152. | The     | battle of Plassey was fought bet        | ween          |                 |       |                 |
|      | (1)     | Tipu Sultan and the British             | (2)           | Muzaffar Jang a | nd th | e British       |
|      | (3)     | Sirajuddaula and the British            | (4)           | The Mughal em   | peror | and the British |
| 153. | The     | Second World War was broke o            | ut in         |                 |       |                 |
|      | (1)     | 1914 (2) 1924                           | (3)           | 1939            | (4)   | 1929            |
| 154. | Nan     | ne the following coastal district:      | in given Map  |                 |       |                 |
|      | (1)     | Guntur                                  |               | ef.             |       |                 |
|      | (2)     | Krishna                                 |               | 5-2             | 7     | 7               |
|      | (3)     | Prakasam                                |               | حثي             | ~~    | 7)              |
|      | (4)     | Visakhapatnam                           |               | 4               | 39    | AL VAL          |
| 155. | Mat     | ch the following.                       |               |                 |       |                 |
|      | i)      | Mansabdar                               | a)            | Hereditary chie |       |                 |
|      | ii)     | Akbar                                   | b)            | Revenue assigni | ment  |                 |
|      | iii)    | Jagirdar<br>Zamindar                    | c)            | Sulh-i-Kul      |       |                 |
|      | iv) (1) | Zamindar<br>i - d ii - c iii - b iv - a | d)            | Rank            |       |                 |
|      | (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             |               |                 |       |                 |



### **GEOGRAPHY**

| 156. | The  | angle at which t                  | he ray   | s fall on the ear | th's sur  | face is called                       |          |                     |
|------|------|-----------------------------------|----------|-------------------|-----------|--------------------------------------|----------|---------------------|
|      | (1)  | insolation                        |          |                   | (2)       | solar radiation                      | 1        |                     |
|      | (3)  | earth radiation                   |          |                   | (4)       | angle of incid                       | ence     |                     |
| 157. |      | ventional symbol<br>bol indicates | s are u  | sed in the 'Topo  | sheets' ( | of survey of Indi                    | a."🂢     | "this conventional  |
|      | (1)  |                                   | (2)      | deserted fort     | (3)       | tank                                 | (4)      | Broken ground       |
| 158. | 'Pin | e' forests usually                | y foun   | d in this region  |           |                                      |          |                     |
|      | (1)  | Equatorial regi                   | on       |                   | (2)       | Himalayas                            |          |                     |
|      | (3)  | Coastal Andhra                    | Prade    | esh               | (4)       | Rayalaseema                          |          |                     |
| 159. | The  | highest peak in A                 | Africa   | is Mount Kilim    | anjaro    | in                                   |          |                     |
|      | (1)  | Tanzania                          | (2)      | Egypt             | (3)       | Ethiopia                             | (4)      | Nigeria             |
| 160. | Fron | n North to South                  | which    | one of the follo  | owing i   | s the correct sec                    | quence   | 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          |
| 161. | A)   | It is a shiny min                 | neral    |                   | B)        | It is used in e                      | lectrica | l industry          |
|      | C)   | It comes in this                  | ı laye   | rs                | D)        | It is a non-conductor of electricity |          |                     |
|      | The  | above statemen                    | ts are i | related to this m | ineral    |                                      |          |                     |
|      | (1)  | Bauxite                           | (2)      | Mica              | (3)       | Asbestos                             | (4)      | Feldspar            |
| 162. | Mate | ch the following                  | •):      |                   |           |                                      |          |                     |
|      | i)   | June 21                           |          |                   | a)        | Sun on the Eq                        | uator    |                     |
|      | ii)  | March 21                          |          |                   | b)        | Sun on the Eq                        | uator    |                     |
|      | iii) | December 22                       |          |                   | c)        | Sun on the Tr                        | opic of  | Cancer              |
|      | iv)  | September 23                      |          |                   | d)        | Sun on the Tr                        | opic of  | Capricorn           |
|      | (1)  | i - c ii - a                      | iii -    |                   |           |                                      |          |                     |
|      | (2)  | i - a ii - c                      | iii -    |                   |           |                                      |          |                     |
|      | (3)  | i - a ii - b                      | iii -    |                   |           |                                      |          |                     |
|      | (4)  | i - c ii - b                      | iii -    | a iv-d            |           |                                      |          |                     |

- 163. 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

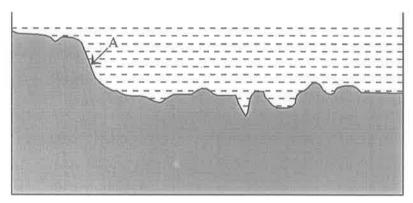
- (4) (B) and (C) only
- 164. There are two main groups referred to as Eskimos: Inuit and Yupik. 'Inuit' in their language means
  - A) the people
  - B) the originates
  - C) Snow shoe-netter
  - (1) (A) only

(2) (B) only

(3) (C) only

(4) (A) and (B) only

165.



Relief features of an Ocean

In this picture 'A' refers to

- (1) Trench
- (2) Deep sea plain
- (3) Continental shelf
- (4) Continental slope



### POLITICAL SCIENCE

| 166. | Gov<br>Act |   | ndhra   | Pradesh water, Land and Trees Protection  |
|------|------------|---|---------|---|
|      | (1)        | 1902  | (2)     | 1985                                      |
|      | (3)        | 1990  | (4)     | 2002                                      |
| 167. | The        | drafting committee chair person of the                              | India   | n Constitution is                         |
|      | (1)        | Dr. B.R. Ambedkar   | (2)     | Dr. Babu Rajendra Prasad                  |
|      | (3)        | Dr. Zaker Hussen  | (4)     | Dr. Farukh Abdullah                       |
| 168. |            | o is the following person is most known<br>es as well as the masses | n for l | his efforts to educate women and lower    |
|      | (1)        | Savitribai Phule  |         |   |
|      | (2)        | Periyar E.V. Rama Swami   |         |   |
|      | (3)        | Sri Narayana Guru   |         |   |
|      | (4)        | Jyotirao Govindrao Phule  |         |   |
| 169. | The        | most popular folk goddess of Andhra P                               | radesl  | n is                                      |
|      | (1)        | Pochamma  | (2)     | Maisamma                                  |
|      | (3)        | Gangamma  | (4)     | Yellamma                                  |
| 170. | The        | Governor of the State is appointed by                               |         |   |
|      | (1)        | Prime Minister  | (2)     | Chief Minister                            |
|      | (3)        | President   | (4)     | Chief Justice of Supreme Court            |
| 171. | The        | first Union Law Minister of Independer                              | nt Indi | ais                                       |
|      | (1)        | Dr. B.R. Ambedkar   | (2)     | Smt. Vijaya Lakshmi Pandit                |
|      | (3)        | Sardar Vallabhbhai Patel  | (4)     | Subhash Chandra Bose                      |
| 172. | The        | constitution of India entrusted the respo                           | onsibi  | ility of conducting elections in India to |
|      | (1)        | The Supreme Court   |         |   |
|      | (2)        | The Election Commission   |         |   |
|      | (3)        | Central Government  |         |   |
|      | (4)        | The State Government  |         |   |
|      |            |   |         |   |



173. Match the following.

- Sovereign i)
- ii) Republic
- iii) Fraternity
- iv) Secular
- (1) i-b ii - c iii - d iv - a
- ii d iii b iv c (2) i - a
- (3) i c ii - b iii - a iv - d
- (4) i d ii - c iii - b iv - a

- a) Government will not favour any religion
- People have the supreme right to make b) decisions
- c) Head of the State is an elected person
- d) People should live like brothers and sisters

174. "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

Jawaharlal Nehru

(4) Dr. Babu Rajendra Prasad

175. 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



### **ECONOMICS**

| 176. | 76. In the Mauryan Period "Pana" was the standard currency. It was made of |  |        |                                     |  |  |  |  |  |  |  |  |  |
|------|--|--|--------|-------------------------------------|--|--|--|--|--|--|--|--|--|
|      | (1)  | Gold   | (2)    | Silver                              |  |  |  |  |  |  |  |  |  |
|      | (3)  | Bronze   | (4)    | Copper                              |  |  |  |  |  |  |  |  |  |
| 177. | Hen  | Henry Ford started this method of production to produce more cars quickly. |        |                                     |  |  |  |  |  |  |  |  |  |
|      | (1)  | Combined Harvester   | (2)    | Assembly line                       |  |  |  |  |  |  |  |  |  |
|      | (3)  | Barter system  | (4)    | Factory system                      |  |  |  |  |  |  |  |  |  |
| 178. | Inw  | hich position India is the largest produc                                  | er 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> |  |  |  |  |  |  |  |  |  |
| 179. | 9. He devised a method of laying road using broken stones.                 |  |        |                                     |  |  |  |  |  |  |  |  |  |
|      | (1)  | Boulton  | (2)    | George Stephenson                   |  |  |  |  |  |  |  |  |  |
|      | (3)  | John Loudon Mc Adam  | (4)    | James Watt                          |  |  |  |  |  |  |  |  |  |
| 180. | Arra   | nge the following stages of paper-mak                                      | ing pr | ocess 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                       |  |  |  |  |  |  |  |  |  |



### SPACE FOR ROUGH WORK