

ENGLISH

Roll No.

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NMMS - FEBRUARY, 2021**MENTAL ABILITY AND
SCHOLASTIC APTITUDE TEST**

Time : Part - I : 90 Minutes
Time : Part - II : 90 Minutes

Max. Marks : 90
Max. Marks : 90

Instructions to 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 **HB Pencil**. 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.

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 Booklet. For shading the circles, use a **HB Pencil**.

Mental Ability Test (MAT)

Directions :

In Question No. 1 - 10, first two given words are related in a way. The same relation is in between third and fourth. Find out the correct answer among the given alternatives.

1. Knife : Cut :: Gun : ?

- (1) Scoop
- (2) Slaughter
- (3) Kill
- (4) Shoot
- (5) Murder

2. Lion : Den :: Rabbit : ?

- (1) Hole
- (2) Pit
- (3) Burrow
- (4) Trench
- (5) Cave

3. Filter : Water :: ? : ?

- (1) Curtail : Activities
- (2) Expunge : Book
- (3) Edit : Text
- (4) Censor : Play
- (5) Copyright : Publish

4. Thrust : Spear :: ? : ?

- (1) Mangle : Iron
- (2) Scabbard : Sword
- (3) Bow : Arrow
- (4) Fence : Epee
- (5) None of these.

5. Elbow : Wrist :: Knee : ?

- (1) Ankle
- (2) Fingers
- (3) Foot
- (4) Toes
- (5) Leg

6. Cow : Mustard :: Butter : ?

- (1) Flower
- (2) Oil
- (3) Plant
- (4) Seed
- (5) Cheese

7. 211 : 333 :: 356 : ?

- (1) 358
- (2) 359
- (3) 423
- (4) 388
- (5) 415

8. Food : Stomach :: Fuel : ?

- (1) Automobile
- (2) Engine
- (3) Truck
- (4) Plane
- (5) Tractor

9. Wine : Grapes :: Vodka : ?

- (1) Apples
- (2) Potatoes
- (3) Oranges
- (4) Flour
- (5) Bush

10. BVSC : YEHX :: MRCP : ?

- (1) NJXK
- (2) LXXM
- (3) NIXK
- (4) OIYM
- (5) XYKM

Directions :

In **Question No. 11-17**, some of the letters or numbers are missing in the given sequence. You have to find out the one correct answer among the given alternatives.

11. - op - mo - n - - pnmop -

- (1) mnompn
- (2) mnpomn
- (3) mpnmop
- (4) mnpmon
- (5) mnmpn

12. 2, 6, 12, 20, 30, ?

- (1) 46
- (2) 48
- (3) 42
- (4) 40
- (5) 56

13. - bmz - ab - - da - - zd

- (1) madmzb
- (2) damzbx
- (3) admzbx
- (4) zbmadm
- (5) admzmb

14. - xyy - xx - - z - x

- (1) xzyyz
- (2) yzyyx
- (3) zzyyx
- (4) xyzzx
- (5) xzyyx

15. A, E, J, ?, W, E

- (1) R
- (2) O
- (3) P
- (4) Q
- (5) N

16. 6, 12, 21, ?, 48

- (1) 40
- (2) 33
- (3) 45
- (4) 53
- (5) 56

17. 2460, 3570, 4680, ?

- (1) 8640
- (2) 5670
- (3) 5970
- (4) 5790
- (5) 8460

Directions :

In Question No. 18-22, four alternatives are alike but one is different from others. Find out the different one and write its answer.

18. (1) Nagpur
(2) Varanasi
(3) Mathura
(4) Haridwar
(5) Allahabad

19. (1) 9416
(2) 5202
(3) 7128
(4) 3236
(5) 1572

20. (1) Sociologist
(2) Neurologist
(3) Economist
(4) Educationalist
(5) Psychologist

21. (1) DJRT
(2) CRVZ
(3) HJNV
(4) BFLR
(5) HLXZ

22. (1) BGL
(2) FKP
(3) AEI
(4) CHM
(5) DIN

Directions :

In Question No. 23-24 : In these questions, one word is coded according to a particular pattern and the candidate is asked to give the code letters for the another word following the same pattern.

23. In a certain code language 'UNIVERSITY' is written as 'VNJV FRTIU Y'. Following the same code, how would you write 'SECRETARY' ?

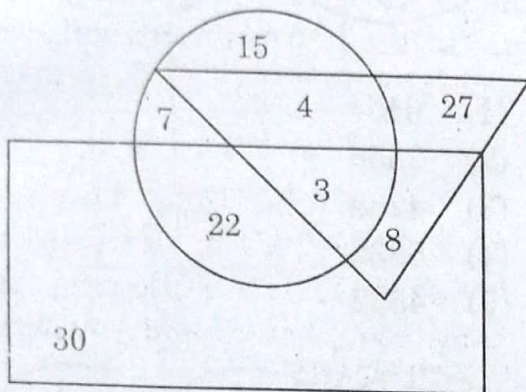
- (1) TFDRFTBRZ
(2) TFERFTBRY
(3) SFCSEUASY
(4) TFDSFUBSZ
(5) TEDRFTBRZ

24. In a certain code word 'SYSTEMATIC' is written as 'ICATEMSTSY'. Following the same code, how would you write the word 'PHYSICAL' ?

- (1) LCAISYPH
(2) ALICYSPH
(3) LACISYHP
(4) ALYCSPH
(5) ALICSYPH

Directions :

In Question No. 25-31, the following diagram shows results of a survey conducted on a group of class VIII students on their career choice. The **rectangle** represents student interested in becoming *engineers*. The **circle** represents those who are interested in becoming *artists* and **triangle** represents students who will like to be *managers*. Assuming the career choice get realised, answer the Questions based on this diagram.



25. How many students would neither like to become engineers nor managers ?

- (1) 15
- (2) 7
- (3) 44
- (4) 22
- (5) 20

26. How many engineers will also be artists ?

- (1) 11
- (2) 25
- (3) 22
- (4) 30
- (5) 27

27. How many managers will neither be artists nor engineers ?

- (1) 27
- (2) 31
- (3) 35
- (4) 39
- (5) 30

28. How many engineers will neither be artists nor managers ?

- (1) 38
- (2) 33
- (3) 52
- (4) 30
- (5) 20

29. How many managers will also be engineers and artists ?

- (1) 7
- (2) 4
- (3) 15
- (4) 11
- (5) 9

30. If 'BRIDGE' is written as EULGJH in a certain code, how will 'FRUIT' be written ?

- (1) IUXLW
- (2) IVLXW
- (3) IUWXL
- (4) IUXVT
- (5) IUWWX

31. If 'KASHMIR' is written as 8142753. How 'RIMSHAK' can be written in that code ?

- (1) 3574218
- (2) 3571842
- (3) 3521478
- (4) 3574812
- (5) 3524182

Directions :

(In Question No. 32-40) : A figure is given in which it is divided into certain parts. Each part bears a number and one part is blank number following a certain pattern of rule. You are required to analyse the given figures and then answer the correct option.

32.

11	6	8
17	12	?
25	34	19
19	28	11

- (1) 13
- (2) 15
- (3) 16
- (4) 9
- (5) 12

33.

5	4	9
6	3	?
7	2	4
65	20	45

- (1) 4
- (2) 2
- (3) 3
- (4) 1
- (5) 0

34.

6	7
42	13

4	9
36	13

8	3
?	11

- (1) 30
- (2) 24
- (3) 18
- (4) 12
- (5) 10

35.

7	2
42	3

9	1
18	3

5	-2
?	-3

- (1) 13
- (2) 18
- (3) 30
- (4) -30
- (5) -20

36.

49	25
3375	9

4	36
?	100

- (1) 6464
- (2) 2856
- (3) 4268
- (4) 5832
- (5) 4832

37.

96
64

48
32

24
?

- (1) 8
- (2) 10
- (3) 16
- (4) 21
- (5) 18

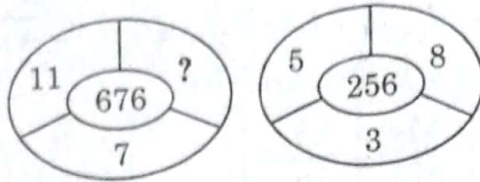
38.

25	25
100 (6) 100	25 (5) 81
25	36

25	49
25 (4) 25	36 (?) 9
25	16

- (1) 3
- (2) 2
- (3) 5
- (4) 4
- (5) 7

39.



- (1) 8
- (2) 7
- (3) 6
- (4) 4
- (5) 3

40.

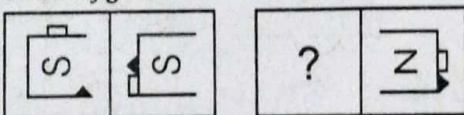
5	7	6
7	2	3
2	3	4
24	27	?

- (1) 13
- (2) 25
- (3) 27
- (4) 30
- (5) 36

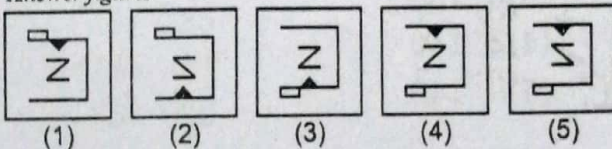
Directions : In Question No. 41 to 45, the second figure in the first unit of the problem figures bears a certain relationship to the first figure. Similarly the second figure in the second unit of the problem figures bears same relationship with one of the five answer figures. Choose the correct answer.

41.

Problem figures

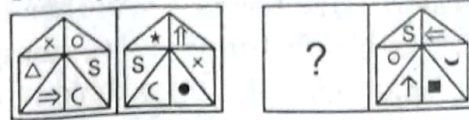


Answer figures

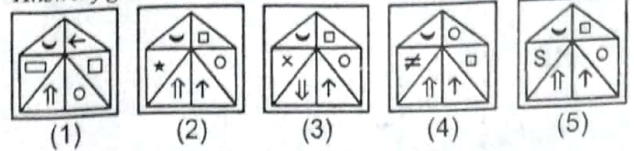


42.

Problem figures

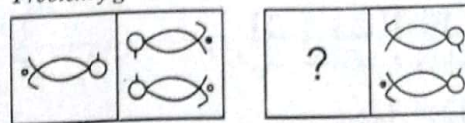


Answer figures

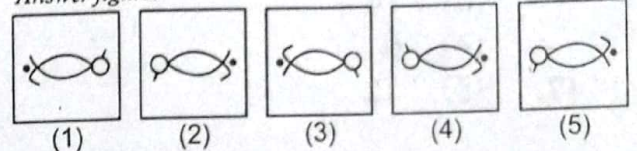


43.

Problem figures

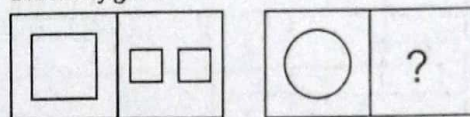


Answer figures

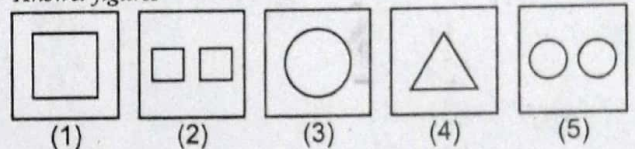


44.

Problem figures

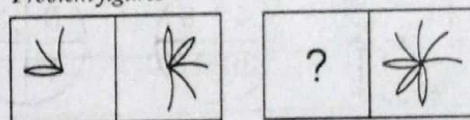


Answer figures

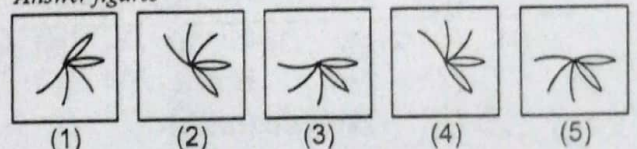


45.

Problem figures



Answer figures

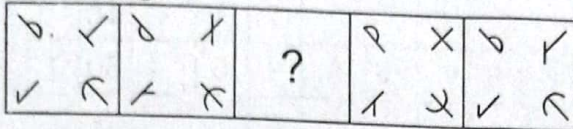


Directions :

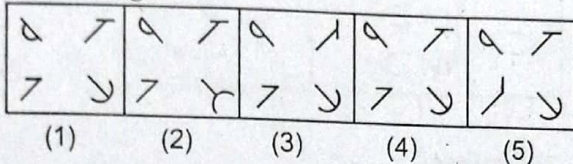
In Question No. 46 to 50 in the problem figures, one figure marked by ? is missing. There is a set of answer figures also in which five alternatives are given. You have to find out the one right answer from the answer figures.

46.

Problem Figures

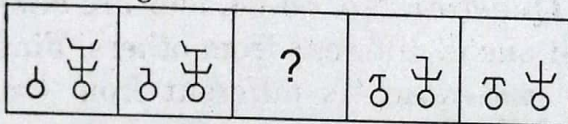


Answer Figures

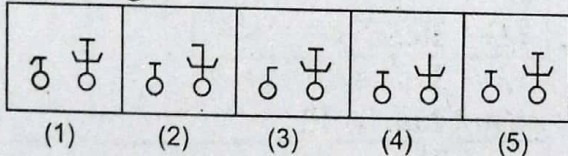


47.

Problem Figures

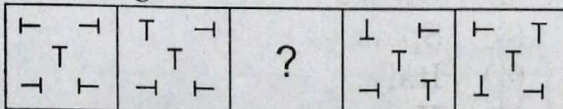


Answer Figures

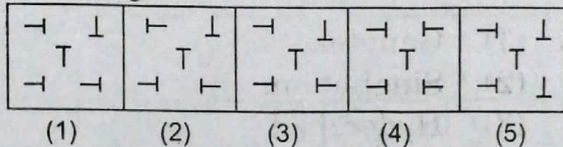


48.

Problem Figures

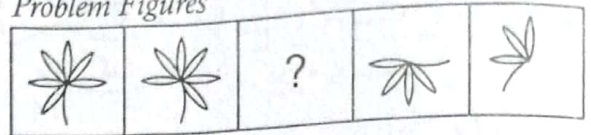


Answer Figures

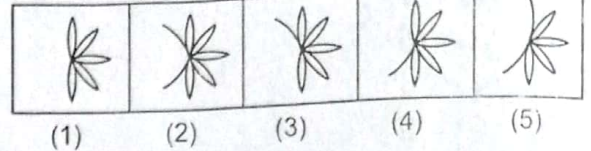


49.

Problem Figures

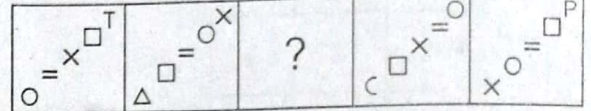


Answer Figures

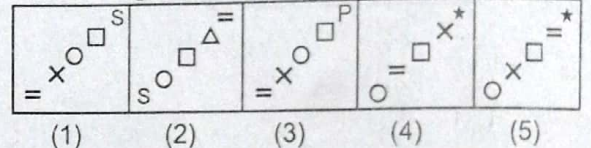


50.

Problem Figures



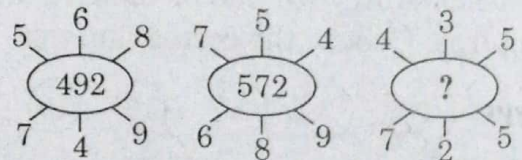
Answer Figures



Directions :

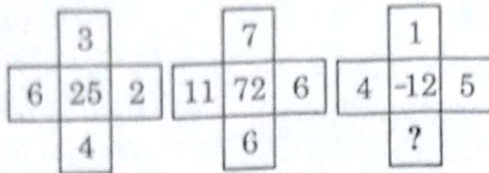
In the Question No. 51 to 57, numbers are placed in the figure on the basis of some rule. But one place has the sign of (?). You have to find out the one correct answer among the five alternatives.

51.



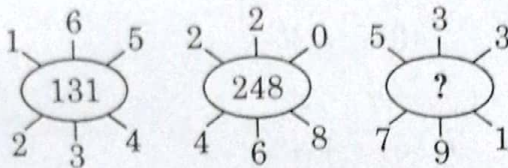
- (1) 115
- (2) 130
- (3) 135
- (4) 140
- (5) 145

52.



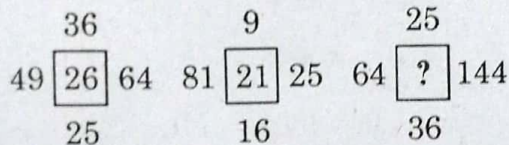
- (1) 10
- (2) 6
- (3) 2
- (4) 1
- (5) 5

53.



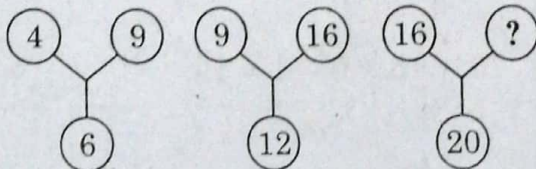
- (1) 320
- (2) 274
- (3) 262
- (4) 132
- (5) 170

54.



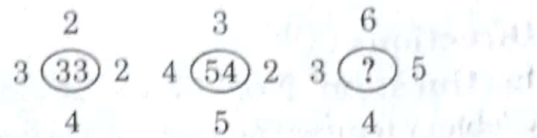
- (1) 19
- (2) 23
- (3) 25
- (4) 31
- (5) 28

55.



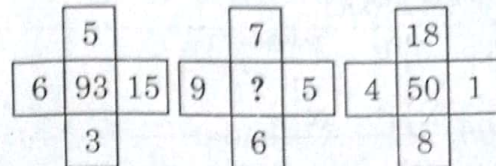
- (1) 60
- (2) 50
- (3) 25
- (4) 21
- (5) 30

56.



- (1) 78
- (2) 82
- (3) 94
- (4) 86
- (5) 70

57.



- (1) 5
- (2) 19
- (3) 27
- (4) 76
- (5) 89

Directions :

In Question No. 58-63, four are alike and one is different from others. Find the one which is different from five alternatives.

58. (1) Rose
(2) Lotus
(3) Marigold
(4) Lily
(5) Tulip

59. (1) Poland
(2) Greece
(3) Spain
(4) Italy
(5) Korea

60. (1) Gangtok
(2) Singhbhum
(3) Hyderabad
(4) Chennai
(5) Bhubaneswar

61. (1) Lake
(2) Sea
(3) River
(4) Pool
(5) Pond

62. (1) Coat
(2) Shirt
(3) Blouse
(4) Trousers
(5) Sweaters

63. (1) Calendar
(2) Year
(3) Date
(4) Month
(5) Day

Directions :

(Q. No. 64 to 70) : In these Questions, there are equations that have become wrong due to incorrect order of signs. Choose the correct order of sign from the five alternatives given below, so that the equations become correct.

64. $36 - 9 \times 4 = 8$
(1) $= + -$
(2) $\times - =$
(3) $\div - =$
(4) $\div + =$
(5) $+ \times =$

65. $2 + 3 \times 5 - 1$
(1) $\times + =$
(2) $= + -$
(3) $\times - =$
(4) $+ - =$
(5) $\div \times =$

66. $4 + 3 \times 5 = 17$
(1) $\times + =$
(2) $- + =$
(3) $= + -$
(4) $- \times =$
(5) $+ \times \div$

67. $25 = 5 \times 3 + 2$
(1) $- + =$
(2) $\div - =$
(3) $= + -$
(4) $\times - =$
(5) $+ \div \times$

68. $17 = 7 - 2 \times 3$
(1) $+ - =$
(2) $- \times =$
(3) $= \times +$
(4) $- = \div$
(5) $= + \times$

69. $32 = 21 + 4 - 15$
(1) $- \div =$
(2) $- \times =$
(3) $+ - =$
(4) $= \div +$
(5) $- + =$

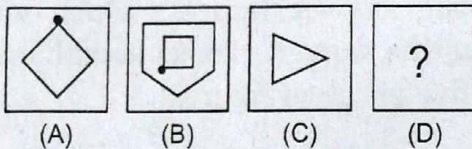
70. $15 \times 5 - 4 = 12$
(1) $\div \times =$
(2) $= \times -$
(3) $+ - =$
(4) $- + =$
(5) $+ \times -$

Directions :

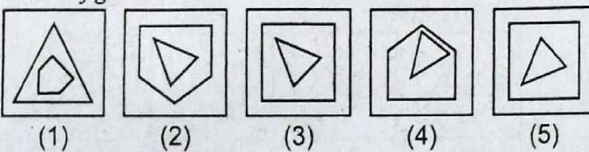
(Q. No. 71 to 80) : Each of the following Questions consists of two sets of figures. Figures A, B, C and D constitute the problem set, while figures 1, 2, 3, 4 and 5 consists of the answer set. There is a definite relationship between figures A and B. Establish similar relationship between figures C and D by selecting suitable figure from the answer set that would replace the Question mark (?). Select suitable figure from the answer figure that would replace the Question mark (?).

71.

Problem figures



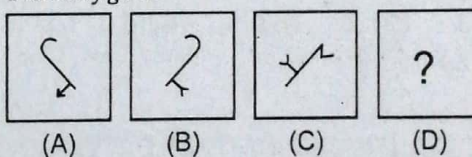
Answer figures



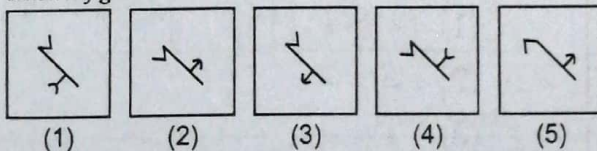
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

72.

Problem figures



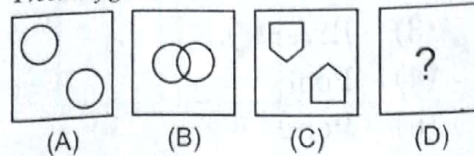
Answer figures



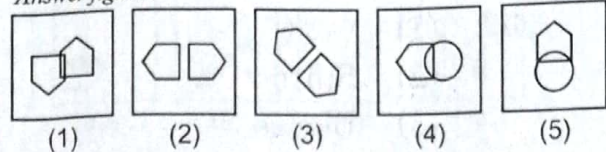
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

73.

Problem figures



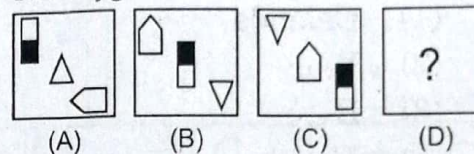
Answer figures



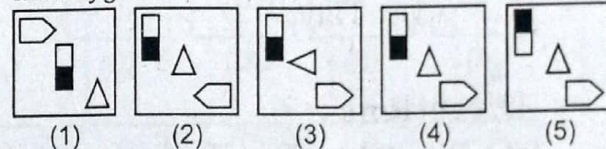
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

74.

Problem figures



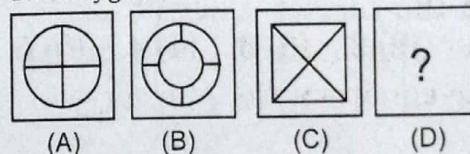
Answer figures



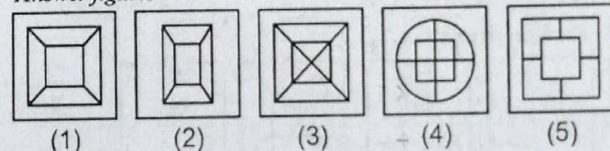
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

75.

Problem figures



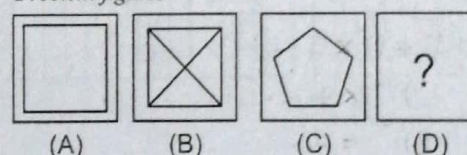
Answer figures



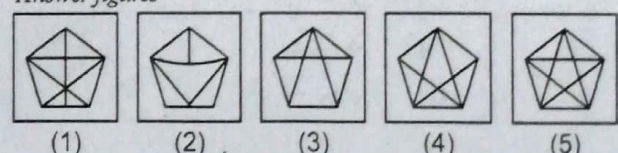
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76.

Problem figures



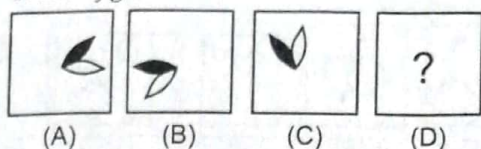
Answer figures



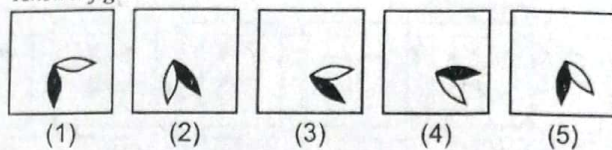
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77.

Problem figures



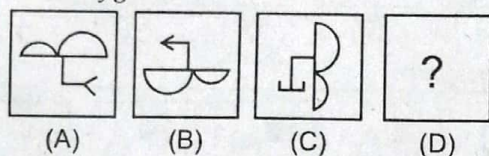
Answer figures



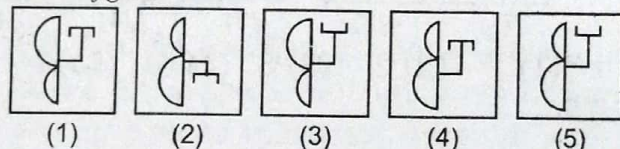
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78.

Problem figures



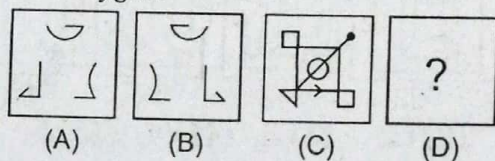
Answer figures



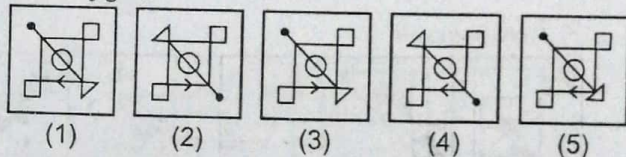
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79.

Problem figures



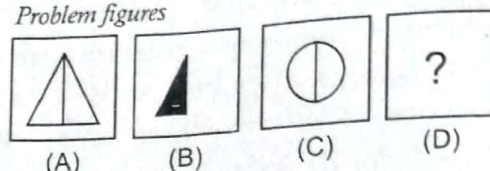
Answer figures



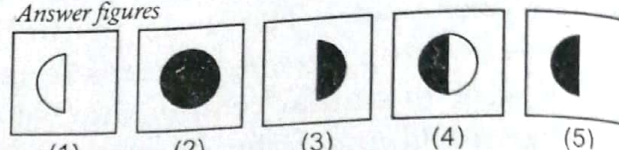
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

80.

Problem figures



Answer figures



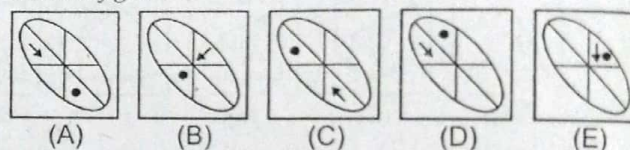
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

Directions :

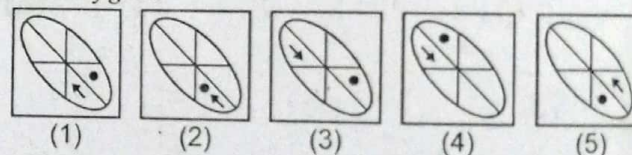
(Q. No. 81 to 90) : Each of the following Questions consists of five figures marked A, B, C, D and E called the problem figures, followed by five other figures marked 1, 2, 3, 4 and 5 called the answer figures, which will continue the same series as established by the five problem figures.

81.

Problem figures



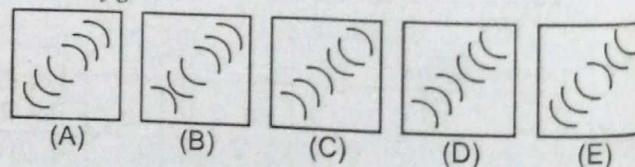
Answer figures



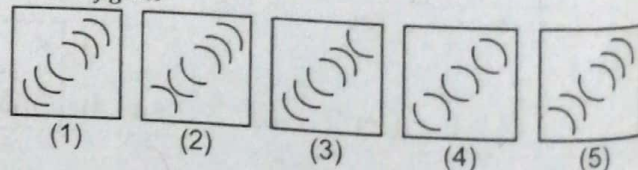
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82.

Problem figures



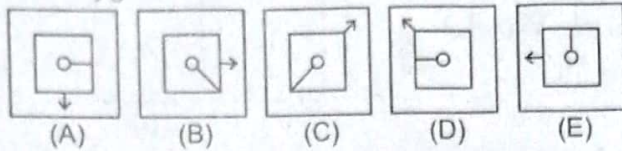
Answer figures



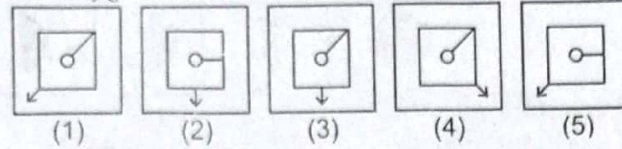
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

83.

Problem figures



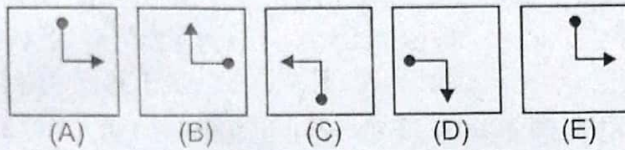
Answer figures



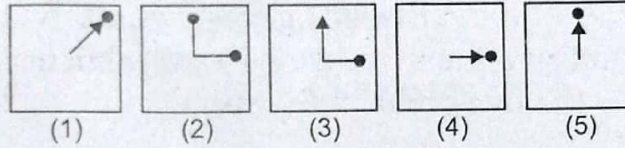
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84.

Problem figures



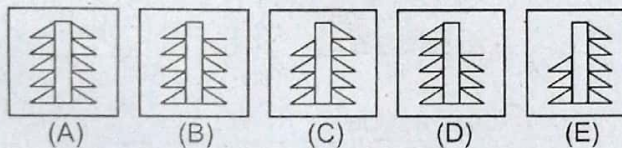
Answer figures



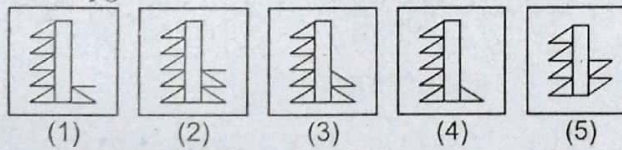
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85.

Problem figures



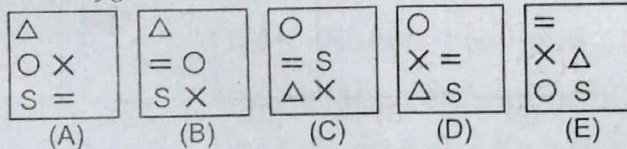
Answer figures



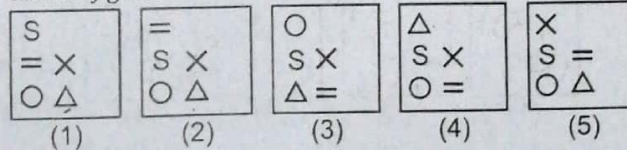
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86.

Problem figures



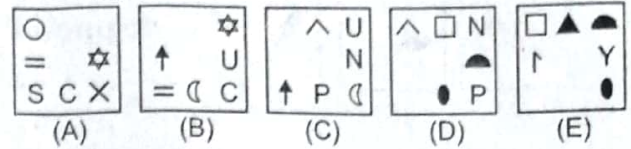
Answer figures



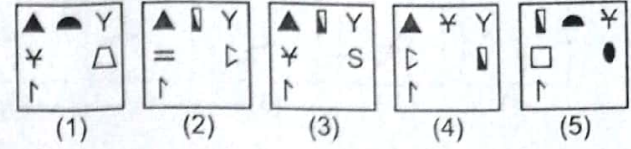
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87.

Problem figures



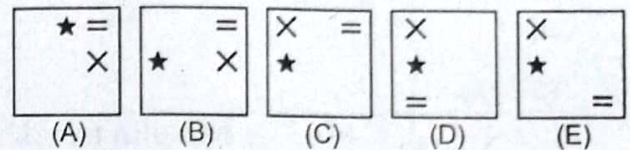
Answer figures



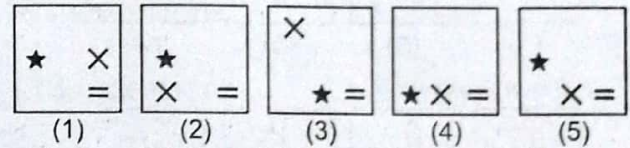
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88.

Problem figures



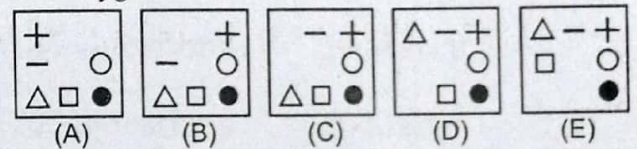
Answer figures



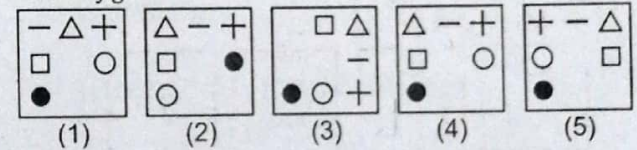
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89.

Problem figures



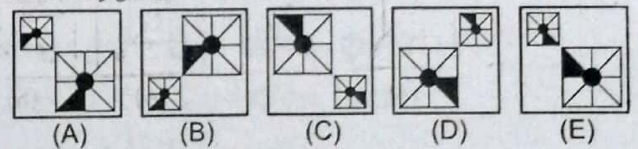
Answer figures



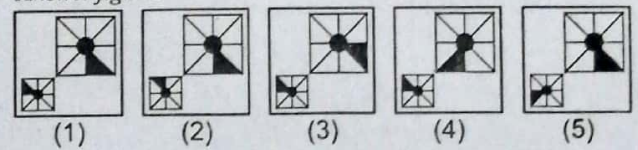
(1) 1 (2) 2 (3) 3 (4) 4 (5) 5

90.

Problem figures



Answer figures



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

PART - II
SCHOLASTIC TEST

Time : 90 Minutes

Max. Marks : 90

Note :

(i) Subjects, Questions Sl. No. and Marks allotted :-

(1)	Physics	91 to 102 Questions	12 Marks
(2)	Chemistry	103 to 113 Questions	11 Marks
(3)	Biology	114 to 125 Questions	12 Marks
(4)	Mathematics	126 to 145 Questions	20 Marks
(5)	History	146 to 155 Questions	10 Marks
(6)	Geography	156 to 165 Questions	10 Marks
(7)	Political Science	166 to 175 Questions	10 Marks
(8)	Economics	176 to 180 Questions	05 Marks

(ii) **SHADE** the circle having the correct alternative in the OMR Sheet provided, from amongst the ones given against the corresponding question in the Question Paper Booklet. For shading the circles, use a **HB Pencil**.

PHYSICS (Ques. 91 to 102)

91. The resisting force to movement of an object is called ...
- (1) Friction
 - (2) Magnetic force
 - (3) Tension
 - (4) Normal force
92. For the body at rest, the net force is ...
- (1) ma
 - (2) not equal to zero.
 - (3) 0
 - (4) None
93. The friction has self adjusting force is ...
- (1) Rolling friction
 - (2) Static friction
 - (3) Sliding friction
 - (4) Fluid friction
94. ... reduces the friction.
- (1) Lubricants
 - (2) Drag
 - (3) Mass
 - (4) None
95. The shrillness of a sound is known as
- (1) Vibration
 - (2) Amplitude
 - (3) Pitch
 - (4) Frequency
96. Length of vocal cords in women is mm
- (1) 20
 - (2) 15
 - (3) 10
 - (4) 5
97. The line joining the pole and the centre of curvature is called the ...
- (1) Normal
 - (2) Angle of incident
 - (3) Principal axis
 - (4) None
98. Bouncing back of light is called
- (1) reflection
 - (2) refraction
 - (3) interference
 - (4) diffraction

99. The basic unit of time is ...

- (1) Days
- (2) Hours
- (3) Seconds
- (4) Months

100. The instrument for measuring distance is ...

- (1) Odometer
- (2) Speedometer
- (3) Altimeter
- (4) None

101. motion is observed in ringing of a bell.

- (1) Rotatory
- (2) Translatory
- (3) Oscillatory
- (4) None

102. The element in Electric Cooker is made up of ...

- (1) Copper
- (2) Tungsten
- (3) Aluminium
- (4) Nichrome

CHEMISTRY (Ques. 103 to 113)

103. The property of changing the metal into sheet is ...
(1) Malleability
(2) Ductility
(3) Conduct of heat
(4) Electric conductivity
104. The substances that are soapy to touch ...
(1) Acids
(2) Basic
(3) Neutrals
(4) Minerals
105. Humidity is measured by ...
(1) Rain gauge
(2) Anemometer
(3) Wind gauge
(4) Hydrometer
106. Air expands on ...
(1) Cooling
(2) Heating
(3) On its own
(4) None
107. Changes in which new substances are formed, are called changes.
(1) Physical
(2) Chemical
(3) Acids
(4) Bases
108. Rust is ...
(1) Iron
(2) Oxygen
(3) Water
(4) Iron oxide
109. The formula of Potassium permanganate is ...
(1) K_2MnO_4
(2) $KMnO_4$
(3) MnO_2
(4) $KClO_3$
110. The liquid fuel used in homes is
(1) CNG
(2) LPG
(3) Coal gas
(4) None
111. ... is not a natural fibre.
(1) Cotton
(2) Silk
(3) Wool
(4) Nylon
112. The handles of utensils are made of
(1) Bakelite
(2) Melamine
(3) Aluminium
(4) Gold
113. Sulphur dioxide is a
(1) Basic oxide
(2) Acidic oxide
(3) Neutral oxide
(4) None

BIOLOGY (Ques. 114 to 125)

114. The disease which is caused due to the deficiency of Vitamin C is ...
 (1) Rickets
 (2) Pellagra
 (3) Scurvy
 (4) Xerophthalmia
115. The enzyme Ptyalin is secreted by ...
 (1) Gastric glands
 (2) Salivary glands
 (3) Intestinal glands
 (4) Pancreas
116. In plants, the secondary metabolites are ...
 (1) Carbohydrates
 (2) Proteins
 (3) Fats
 (4) Alkaloids
117. The release of CO_2 during respiration can be tested with ...
 (1) Lime water
 (2) Potassium permanganate
 (3) Sulphuric acid
 (4) Soda water
118. The cellular respiration takes place in ...
 (1) Golgi-complex
 (2) Chloroplast
 (3) Mitochondria
 (4) Ribosomes
119. The instrument used to measure the Blood Pressure is
 (1) Hydrometer
 (2) Sphygmomanometer
 (3) Calorimeter
 (4) Thermometer
120. The excretory organ in Platyhelminthes is ...
 (1) Nephridia
 (2) Malpighian tubules
 (3) Flame cells
 (4) Kidneys
121. The number of Cranial nerves in human being is ...
 (1) 10 pairs
 (2) 31 pairs
 (3) 12 pairs
 (4) 43 pairs
122. Gonadotropin hormone is secreted by ...
 (1) Adrenalin gland
 (2) Thyroid gland
 (3) Pituitary gland
 (4) Pancreas
123. The phytohormone which is useful for ripening of fruits is ...
 (1) Auxins
 (2) Gibberellins
 (3) Cytokinins
 (4) Ethylene
124. In Bryophyllum, the vegetative reproduction occurs through ...
 (1) Root
 (2) Stem
 (3) Leaf
 (4) Flower
125. The total number of canines present in human being is ...
 (1) One
 (2) Two
 (3) Eight
 (4) Four

MATHEMATICS (Ques. 126 to 145)

126. If $\sqrt{1 + \frac{25}{144}} = 1 + \frac{x}{12}$,

then the value of 'x' is

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

127. The dimensions of a rectangular hall are 32 m $\times$ 18 m. If each tile measures 3m $\times$ 2 m, then the number of tiles required for tiling the floor is ...

- (1) 48
- (2) 96
- (3) 120
- (4) 126

128. If $3x + 1 = 2y - 1 = 5z + 3 = 15$, then the value of $3x - 3y + 5z$ is

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

129. If a number exceeds 20% of itself by 40, then the number is

- (1) 50
- (2) 60
- (3) 80
- (4) 320

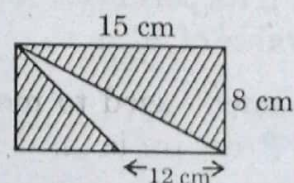
130. The cube root of $\frac{216}{343}$ is

- (1) $\frac{7}{11}$
- (2) $\frac{8}{9}$
- (3) $\frac{6}{7}$
- (4) $\frac{9}{11}$

131. The sum of two rational numbers is -3. If one of the numbers is $-\frac{7}{5}$, then the other number is

- (1) $-\frac{8}{5}$
- (2) $\frac{8}{5}$
- (3) $-\frac{6}{5}$
- (4) $\frac{6}{5}$

132. In the given figure, the area of shaded region in cm^2 is



- (1) 48
- (2) 72
- (3) 120
- (4) 24

133. If $x^2 + \frac{1}{x^2} = 27$,

then the value of $x - \frac{1}{x}$ is

- (1) 23
- (2) 25
- (3) 27
- (4) 5

134. The median of the data 46, 64, 87, 41, 58, 77, 35, 90, 55, 33, 92 is

- (1) 87
- (2) 58
- (3) 77
- (4) 60.2

135. A ceiling fan is sold for ₹ 1326 after a discount of 15% on its marked price, then its marked price is

- (1) ₹ 1506
- (2) ₹ 1650
- (3) ₹ 1630
- (4) ₹ 1560

136. The length of a rectangle is $(3x - 2)$ cm and breadth is $(x + 4)$ cm. If its perimeter is 60 cm, then the value of 'x' is

- (1) 7
- (2) 9
- (3) 12
- (4) 29

137. $a : b = 2 : 3$ and $b : c = 5 : 8$.

If $a + b + c = 98$, then the value of 'b' is ...

- (1) 15
- (2) 20
- (3) 30
- (4) 32

138. If $2^{x+1} = 8^x$, then the value of 'x' is

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

139. If 'A' invested ₹ 2000 for 1 year and 'B' invested ₹ 3000 for 8 months in a business, then the ratio of their profits is

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

140. If $\frac{x}{3} - \frac{2x}{5} = \frac{2x}{3} - \frac{11}{30}$, then the value of 'x' is

(1) $\frac{3}{4}$

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

(3) $\frac{4}{3}$

(4) $\frac{1}{2}$

141. If $\sqrt{7744} = 88$, then the value of $\sqrt{0.007744}$ is ...

(1) 0.808

(2) 0.088

(3) 8.8

(4) 0.88

142. ABCD is a rhombus. If $\angle ACB = 40^\circ$, then $\angle ADB$ is

(1) 40°

(2) 45°

(3) 50°

(4) 60°

143. The least among the rational numbers $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}$ is

(1) $\frac{2}{3}$

(2) $\frac{3}{4}$

(3) $\frac{4}{5}$

(4) $\frac{5}{6}$

144. Simplified form of $(x^{-1} + y^{-1})^{-1}$ is

(1) $x + y$

(2) $\frac{xy}{x + y}$

(3) $\frac{x + y}{xy}$

(4) $\frac{xy}{x - y}$

145. The value of $(28)^3 - (17)^3 - (11)^3$ is

(1) 16708

(2) 15078

(3) 15807

(4) 15708

HISTORY

(Ques. 146- 155)

146. The most powerful Chola ruler was ...

- (1) Vijayalaya
- (2) Rajaraja - I
- (3) Muttaraiyar
- (4) Rajendra - I

147. The correct pair of the following is ...

- (1) Rudrama devi - Pallava ruler.
- (2) Ganapathideva - Chola king.
- (3) Rudradeva - Thousand
pillared temple.
- (4) Palanati virula katha -
Gajapathi.

148. Krishnadevaraya's court was adorned by eight poets popularly known as ...

- (1) Ashtadiggajas
- (2) Nava nayakas
- (3) Trimurthulu
- (4) Shat chakravarthi

149. Study the following table which shows the important kings of Vijayanagara and their ruling period.

Answer the question given below.

S.N.	Name of the King	Period of Ruling
1.	Bukkaraya - I	1357 - 1377 AD
2.	Harihara - II	1377 - 1404 AD
3.	Devaraya - II	1426 - 1446 AD
4.	Narasimharaya	1486 - 1491 AD
5.	Krishnadevaraya	1509 - 1529 AD

The king who had ruled more than 25 years is

- (1) Bukkaraya - I and
Krishnadevaraya.
- (2) Devaraya - II
- (3) Narasimharaya
- (4) Harihararaya - II

150. Siraj-ud-daulah, the Nawab of Bengal was defeated by English in the year ...

- (1) 1857 AD
- (2) 1947 AD
- (3) 1757 AD
- (4) 1647 AD

151. Which of the following statements is not TRUE ?

- (1) The English had to fight with many Kings and Nawabs to establish their rule in India.
- (2) In the year 1857, the sipahis (soldiers) revolted against British rulers.
- (3) The famous Salarjung museum is located at Delhi.
- (4) Portuguese had established their base in Goa.

152. 'Ryotwari settlement' was introduced by the British collector ...

- (1) Thomas Munro
- (2) Thomas Cook
- (3) Robert Clive
- (4) Vasco da Gama

153. The correct pair of the following is ...

- (i) W.C. Banerjee – Indian National Congress.
- (ii) Dadabhai Naoroji – West India Association.
- (iii) Kadambari Ganguli – First woman graduate participant from Calcutta.
- (iv) Mutnuri Krishna Rao – Andhra Patrika.

- (1) (ii)
- (2) (i), (iii)
- (3) (iv)
- (4) (ii)

154. The famous slogan, "SWARAJ IS MY BIRTH RIGHT" was given by ...

- (1) Mahatma Gandhi
- (2) Sardar Vallabh Bhai Patel.
- (3) Bhagat Singh
- (4) Bal Gangadhar Tilak

155. Which of the following is paired incorrectly ?

- (1) Dandi Satyagraha - 1930
- (2) Quit India Movement - 1945.
- (3) World War II – 1939.
- (4) Government of India Act - 1935

GEOGRAPHY (Ques. 156-165)

156. Who prepared one of the first survey based maps of India ?
 (1) William Lambton
 (2) Sir George Everest
 (3) James Rennell
 (4) Gerardus Mercator
157. Which of the following cities is related to extreme climate ?
 (1) Hyderabad
 (2) Visakhapatnam
 (3) Bombay
 (4) Kanyakumari
158. Which of the following factors is not responsible for change in seasons ?
 (1) Daily rotation of the Earth on its own axis.
 (2) The spherical shape of the Earth and the curvature of its surface.
 (3) The length of the equator.
 (4) The Earth's movement around the Sun once a year.
159. Find the correct one about the Eskimos.
 (1) Eskimo means snowshoe netter.
 (2) Harpoon - A weapon to hunt seals.
 (3) Igloo means shelter.
 (4) All the above.
160. Which forests are dense forest with a very large varieties of trees ?
 (1) Evergreen forests
 (2) Deciduous forests
 (3) Thorny forests
 (4) None of the above.
161. Find the correct one about Coal mining.
 (1) Face means Coal drilling area.
 (2) Coal seam means Coal layer.
 (3) Mine shaft means narrow tunnel.
 (4) All the above.
162. Which of the following is not the form of Precipitation ?
 (1) Snow
 (2) Rain
 (3) Dew
 (4) Humidity
163. The district receiving least rainfall in Telangana is
 (1) Kama Reddy
 (2) Khammam
 (3) Jogulamba Gadwal
 (4) Suryapet
164. The part of Europe which receives showers all round the year is ...
 (1) Western Europe
 (2) Southern Europe
 (3) Eastern Europe
 (4) Northern Europe
165. The highest peak in Africa is ...
 (1) Mount Cameroon
 (2) Mount Kilimanjaro
 (3) Mount Kenya
 (4) Mount Rwenzori

POLITICAL SCIENCE (Ques. 166-175)

166. India celebrates Republic Day every year on ...
 (1) 26th February
 (2) 15th August
 (3) 26th January
 (4) 15th January
167. In our Constitution, we wrote 'India is a sovereign country'. Sovereign means ...
 (1) The head of the State is an elected person.
 (2) No external power can make laws for India.
 (3) Wealth should be shared equally by all.
 (4) The government will not be run on the basis of any religion.
168. The maximum number of members the Rajya Sabha can have ...
 (1) 350 (2) 545
 (3) 150 (4) 250
169. The MLAs of all the States and the members of both houses of the Parliament elect the ...
 (1) Prime minister
 (2) Governor
 (3) President
 (4) Collector
170. The Supreme Court of India is located in ...
 (1) Hyderabad
 (2) Mumbai
 (3) Bhopal
 (4) New Delhi
171. The number of MLAs the Telangana State Assembly has ...
 (1) 119 (2) 219
 (3) 319 (4) 120
172. Which of the following statements is TRUE ?
 (1) In the elections, candidate who secures the least number of votes is declared elected.
 (2) All the MLAs together elect a person as the speaker of the Assembly.
 (3) Chief minister is not the leader of the cabinet.
 (4) Government officers will make the laws.
173. Correct statement of the following is ...
 (i) Many villages together form a Mandal.
 (ii) Revenue officer keeps the land records.
 (iii) The collector is incharge of a Mandal.
 (iv) The Governor of a State is appointed by the Chief minister of that state.
 (1) (iv) (2) (iii)
 (3) (i), (iv) (4) (i), (ii)
174. The chairperson of the Committee for drafting of the Constitution of India was ...
 (1) Dr. Sarvepalli Radha Krishnan.
 (2) Dr. B.R. Ambedkar
 (3) Mahatma Gandhi
 (4) Jawaharlal Nehru
175. Elections to the State Legislative Assembly are held once in every ...
 (1) 4 yrs. (2) 10 yrs.
 (3) 6 yrs. (4) 5 yrs.

ECONOMICS (Ques. 176-180)

176. Industrial revolution was started for the first time in this country.

- (1) England
- (2) Germany
- (3) France
- (4) Spain

177. Which of the following does not come under the process of evolution of money ?

- (1) Grains
- (2) Animals
- (3) Precious metals
- (4) None of the above.

178. A multipurpose health assistant (MPHA) performs his duties at the ...

- (1) Sub Centre.
- (2) Primary Health Centre.
- (3) Community Health Centre.
- (4) Area Hospital.

179. Find out the wrong sentence about health services.

- (1) Nutritious food helps in improving the health scenario.
- (2) Rural areas have trained doctors.
- (3) India has the largest number of medical colleges in the world.
- (4) All the above.

180. Name the drought responsible for the migration of many number of Indians to South Africa, Mauritius, Fiji, etc as labourers after 1865.

- (1) Bengal Famine
- (2) Palamau Famine
- (3) Ganjam Famine
- (4) Marathwada Famine