DO NOT OPEN THE SEAL UNTIL INSTRUCTED TO DO SO.

Marked copy

**NT (E)** | **NT – NOV, 2019**

**Medium : English** | **MENTAL ABILITY TEST** | **Q. Booklet No. XXXXXX**

**Candidate's Roll Number** | **Paper – I**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**Time allowed : 120 Minutes** | **Total Questions : 100** | **Maximum Marks : 100**

**INSTRUCTION : Please check that OMR Answer Sheet No. and Question Booklet No. match with each other. If they do not match immediately replace the Question Booklet and OMR Answer Sheet. Candidate should fill the correct Question Booklet No. in OMR Answer Sheet.**

## Instructions to Candidates

Read the following instructions carefully before you answer the questions. Answers are to be SHADED on a SEPARATE OMR Answer sheet given, with a **HB pencil.** Read the **Instructions printed on the OMR sheet carefully before answering the questions.**

1. Please write your Roll No. very clearly (only one digit in one block) on the OMR Answer sheet as given in your admission card. Please see that no block is left unfilled and even Zeros are correctly transferred to the appropriate blocks on the OMR Answer sheet. For all the subsequent purposes, your Centre Code No. and other details shall remain the same as given on the Admission Card.
2. **Paper-I (Mental Ability Test)** consists of 100 questions (Q. Nos. 1 to 100).
3. All questions 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 all the questions.
6. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. If time permits, you can come back to the questions which you have left in the first instance and try them again.
7. Since the time allotted to the 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 question paper.
9. REMEMBER YOU HAVE TO SHADE ANSWERS ON A SEPARATE OMR ANSWER 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 Answer 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. The OMR Answer sheet consists of two copies, the ORIGINAL COPY and the CANDIDATE'S COPY. Do not separate or displace them. Do not darken the bubbles in two copies of OMR Answer sheets separately. After the examination, you should hand over the original copy of OMR Answer sheet to the invigilator of the room and can take away the Candidate's copy of OMR Answer Sheet with them.
13. The candidate **need not return** this Question Paper booklet and can take it after completion of the examination. No candidate should leave the examination hall before the end of the examination.

# PAPER – I

# MENTAL ABILITY TEST

# (Q. Nos. 1 to 100)

# Max. Marks : 100

**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**.

**Direction: In Question nos. 1 to 5:**
**Some letters are given in Column I and some digits are given in column II. Each digit of column II represents any letter of column I. Study the columns and write the alternative letter after choosing the correct alternative against the corresponding question.**

| Column – I | Column – II |
|---|---|
| DMBQZ | 67024 |
| ANYQD | 84917 |
| MBTYC | 58603 |
| TQCNM | 54316 |
| BDZAT | 72509 |
| ZQYAB | 48902 |
| QNTYM | 41586 |
| YBTCZ | 80532 |
| ZNMAC | 29631 |
| MTQYZ | 46528 |

1. The code for M is _____
(1) 4 (2) 5
(3) 6 (4) 2
Question Id : 1

2. The code for A is _____
(1) 0 (2) 3
(3) 8 (4) 9
Question Id : 2

3. The code for T is _____
(1) 6 (2) 5
(3) 8 (4) 3
Question Id : 3

4. The sum of the codes T and Q is _____
(1) 12 (2) 10
(3) 9 (4) 11
Question Id : 4

5. The product of the codes D and N is _____
(1) 21 (2) 5
(3) 8 (4) 7
Question Id : 5

**Direction: In Question nos. 6 to 10:**
Read the following information carefully and answer the questions that follows :
(i) There is a group of five persons A, B, C, D and E.
(ii) One of them is Teacher, one is a Doctor, one is a Journalist, one is an Industrialist and one is an advocate.
(iii) Three of them – A, C and advocate prefer tea to coffee and two of them – B and the journalist prefer coffee to tea.
(iv) The industrialist and D and A are friends to one another but two of these prefer coffee to tea.
(v) The Teacher is C's brother.

6. Who is Teacher ?
(1) A (2) B
(3) C (4) D
Question Id : 6

7. Who is an Industrialist ?
(1) B (2) C
(3) D (4) E
Question Id : 7

8. Which of the following groups includes a person who likes tea but is not an advocate ?
(1) A, B (2) B, C
(3) A, C (4) B, D
Question Id : 8

9. Who is a Doctor ?
(1) A (2) B
(3) C (4) D
Question Id : 9

10. Which of the above statements is Superfluous ?
(1) ii (2) iii
(3) v (4) None
Question Id : 10

**Direction: In Question nos. 11 to 20:**
In each of the following questions, a letter series is given, in which some letters are missing. The missing letters are given in the proper sequence as one of the alternatives. Find the correct alternative.

11. ABB _ _ AB _ B _ BBA _ A
(1) BABBA (2) BBBAB
(3) ABAAB (4) BBABB
Question Id : 11

12. _ BAA_BBB _ AB _
(1) AABB (2) BBAB
(3) BAAB (4) ABAB
Question Id : 12

13. A _ BAB _ AB _ ABB
(1) AAA (2) ABB
(3) BBB (4) BBA
Question Id : 13

14. PQR _ _ RSPRS _ _ SPQ _
(1) SPQPQ (2) RPQSQ
(3) QRSPQ (4) SQPQR
Question Id : 14

15. AC _ CAB _ BACA _ ABA _ ACAC
(1) AACB (2) ACBC
(3) BABB (4) BCBB
Question Id : 15

16. W _ V _ _ XV _ W _ VW _ XV
(1) XWWWXW (2) VWXVWX
(3) XVWXWX (4) XWVXWV
Question Id : 16

17. _ _ ABA _ _ BA _ AB
(1) ABBBA (2) ABBAB
(3) BAABB (4) BBABA
Question Id : 17

18. UV _ V _ U _ WV _ UV _ VUU _ WVU
(1) UVWVUW (2) WUVUWV
(3) VUWVUW (4) WVVUWV
Question Id : 18

19. _ op _ mo _ n _ _ pnmop _
(1) mnpmon (2) mpnmop
(3) mnompn (4) mnpomn
Question Id : 19

20. C _ BBA _ CAB _ AC _ AB _ AC
(1) ABCBC (2) ACBCB
(3) BABCC (4) BCACB
Question Id : 20

**Direction: In Question nos. 21 to 30:**
In the number series given below, one number is missing. Each series is followed by four alternatives (1), (2), (3) and (4). One of them is the right answer.
Identify and indicate it as per the "Instructions".

21. 0, 6, 24, 60, 120, _____
(1) 196 (2) 206
(3) 216 (4) 210
Question Id : 21

22. 4, 32, 8, 64, 16, 128, _____
(1) 64 (2) 156
(3) 48 (4) 32
Question Id : 22

23. 0, 9, 21, 36, 54, _____
(1) 75 (2) 144
(3) 77 (4) 69
Question Id : 23

24. 39, 56, 73, 90, 107, 124, _____
(1) 137 (2) 141
(3) 147 (4) 161
Question Id : 24

25. 6, 24, 60, 120, _____
(1) 210 (2) 240
(3) 180 (4) 224
Question Id : 25

26. 17, 37, 77, 157, _____
(1) 347 (2) 217
(3) 417 (4) 317
Question Id : 26

27. 12, 15, 27, 42, 69, 111, _____

(1) 164 (2) 160

(3) 174 (4) 180

Question Id : 27

28. 26, 4, 20, 10, 14, 16, 8, 22, 2, 28, _____

(1) 34 (2) – 6

(3) – 4 (4) 6

Question Id : 28

29. 14, 11, 13, 10, 12, 9, _____

(1) 6 (2) 15

(3) 11 (4) – 3

Question Id : 29

30. 789, 678, 567, 456, 345, _____

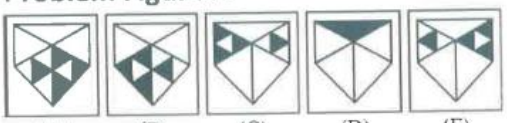
(1) 111 (2) 254

(3) 244 (4) 234

Question Id : 30

**Direction: In Question nos. 31 to 40:**
Each of the following questions consists of the five figures marked A, B, C, D and E called the problem figures followed by four alternatives marked 1, 2, 3 and 4 called the answer figures. Select a figure which will continue the same series established by the five problem figures.

31. **Problem Figures :**



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

**Answer Figures :**

(1) 

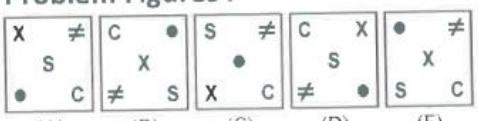
(2) 

(3) 

(4) 

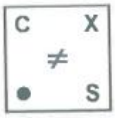
Question Id : 31

32. **Problem Figures :**

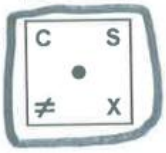


(A) (B) (C) (D) (E)

**Answer Figures :**

(1) 

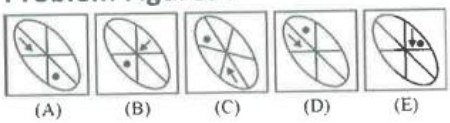
(2) 

(3) 

(4) 

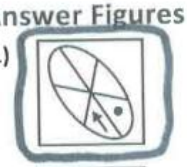
Question Id : 32

33. **Problem Figures :**



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

**Answer Figures :**

(1) 

(2) 

(3) 

(4) 

Question Id : 33

34. **Problem Figures :**



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

**Answer Figures :**

(1) 

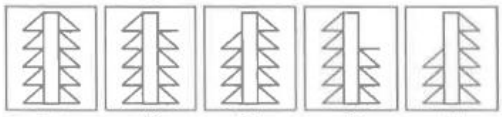
(2) 

(3) 

(4) 

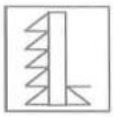
Question Id : 34

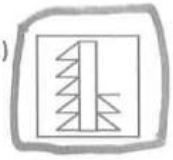
35. **Problem Figures :**

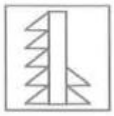


(A) (B) (C) (D) (E)

**Answer Figures :**

(1) 

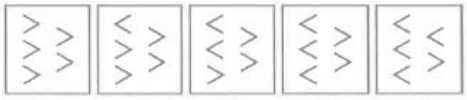
(2) 

(3) 

(4) 

Question Id : 35

36. **Problem Figures :**



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

**Answer Figures :**

(1) 

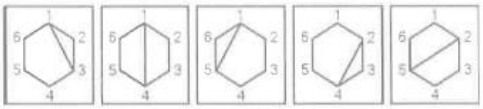
(2) 

(3) 

(4) 

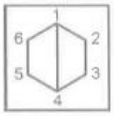
Question Id : 36

37. **Problem Figures :**



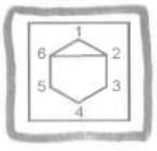
(A) (B) (C) (D) (E)

**Answer Figures :**

(1) 

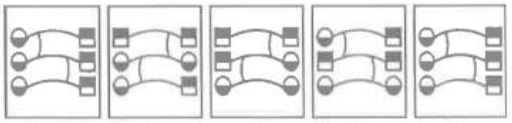
(2) 

(3) 

(4) 

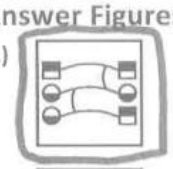
Question Id : 37

38. **Problem Figures :**



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

**Answer Figures :**

(1) 

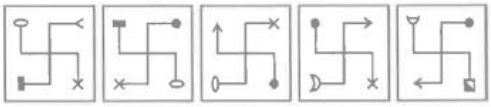
(2) 

(3) 

(4) 

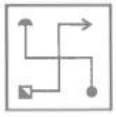
Question Id : 38

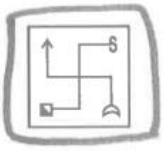
39. **Problem Figures :**

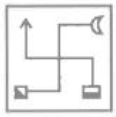


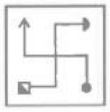
(A) (B) (C) (D) (E)

**Answer Figures :**

(1) 

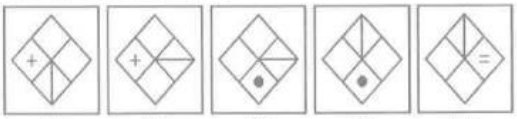
(2) 

(3) 

(4) 

Question Id : 39

40. **Problem Figures :**



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

**Answer Figures :**

(1) 

(2) 

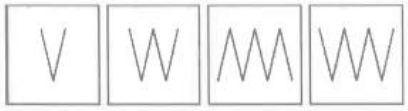
(3) 

(4) 

Question Id : 40

**Direction: In Question nos. 41 to 50:**
Out of the four figures (1), (2), (3), (4) given in each question, three are similar in a certain way. Choose the figure which is different from the other figures.

41. Choose the figure which is different from the rest.



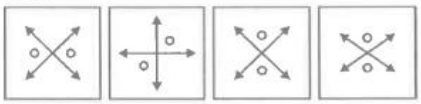
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 41

42. Choose the figure which is different from the rest.



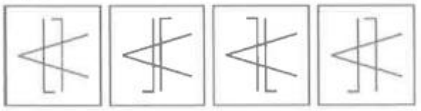
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 42

43. Choose the figure which is different from the rest.



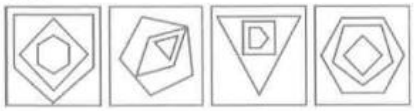
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 43

44. Choose the figure which is different from the rest.



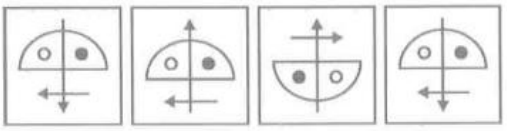
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 44

45. Choose the figure which is different from the rest.



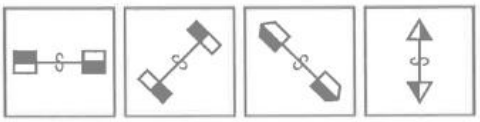
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 45

46. Choose the figure which is different from the rest.



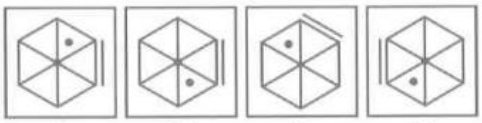
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 46

47. Choose the figure which is different from the rest.



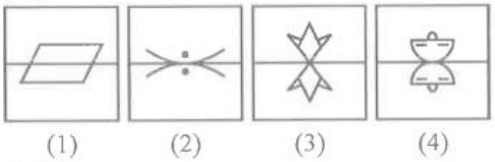
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 47

48. Choose the figure which is different from the rest.



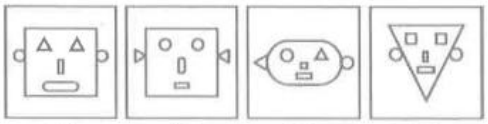
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 48

49. Choose the figure which is different from the rest.



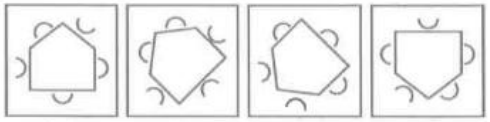
(1) (2) (3) (4)

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 49

50. Choose the figure which is different from the rest.



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

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 50

**Direction: In Question nos. 51 to 60:**
In these questions, numbers are arranged on the basis of some rules. One place is vacant, which is indicated as "?". Find out the correct alternatives to replace the question mark "?".

51.

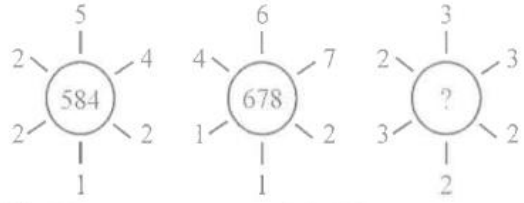
| | | |
|---|---|---|
| 3 | 2 | 1 |
| 6 | 5 | 4 |
| 7 | 8 | 9 |
| 39 | 38 | ? |

(1) 36 (2) 37

(3) 41 (4) 35

Question Id : 51

52.

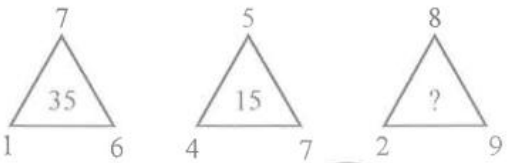



(1) 649 (2) 691

(3) 694 (4) 964

Question Id : 52

53.

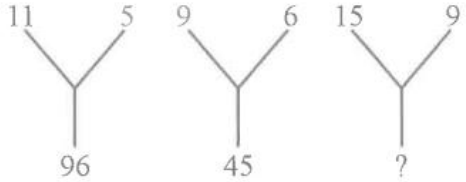



(1) 46 (2) 56

(3) 72 (4) 74

Question Id : 53

54.

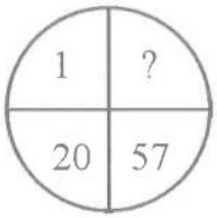



(1) 135 (2) 140

(3) 144 (4) 138

Question Id : 54

55.

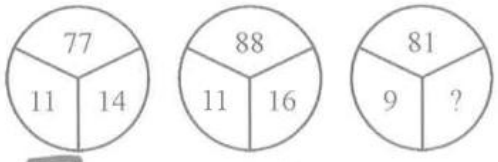



(1) 115 (2) 118

(3) 121 (4) 114

Question Id : 55

56.

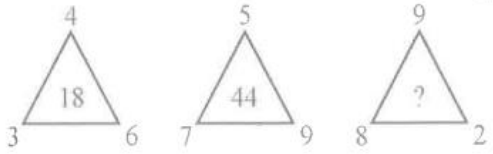



(1) 18 (2) 20

(3) 16 (4) 27

Question Id : 56

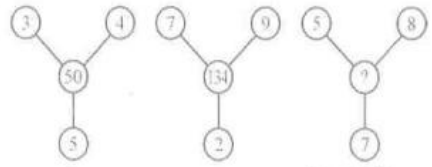
57.




(1) 72 (2) 77

(3) 56 (4) 74

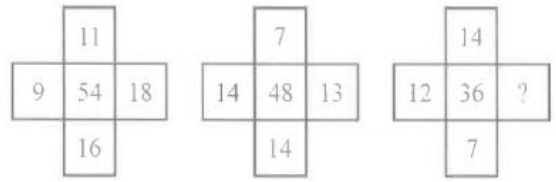
Question Id : 57

58. 


(1) 136 (2) 138

(3) 140 (4) 144

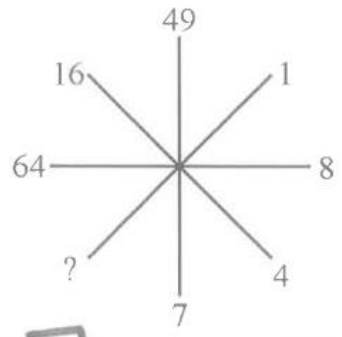
Question Id : 58

59. 


(1) 11 (2) 4

(3) 3 (4) 9

Question Id : 59

60. 

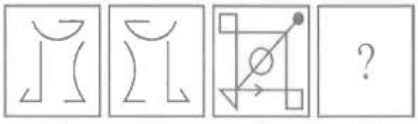

(1) 1 (2) 2

(3) 3 (4) 4

Question Id : 60

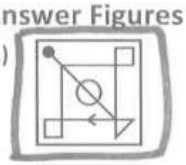
**Direction: In Question nos. 61 to 70:**
The following questions consists of two sets of figures A, B, C and D constitute the problem set while figures 1, 2, 3 and 4 constitute the answer set. A definite relationship exists between figures A and B. You are required to establish a similar relationship between figures C and D by choosing a suitable figure D from the answer set.

61. **Problem Figures :**




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

**Answer Figures :**

(1) 

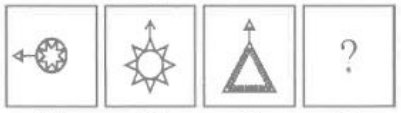
(2) 

(3) 

(4) 

Question Id : 61

62. **Problem Figures :**

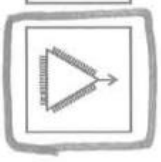



(A) (B) (C) (D)

**Answer Figures :**

(1) 

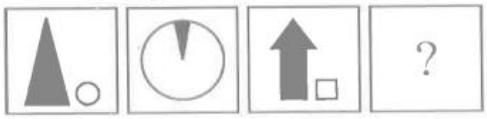
(2) 

(3) 

(4) 

Question Id : 62

63. **Problem Figures :**



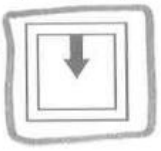

(A) (B) (C) (D)

**Answer Figures :**

(1) 

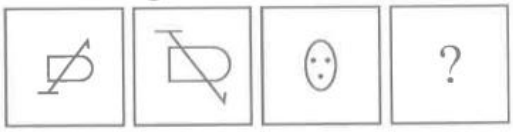
(2) 

(3) 

(4) 

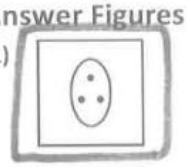
Question Id : 63

64. **Problem Figures :**




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

**Answer Figures :**

(1) 

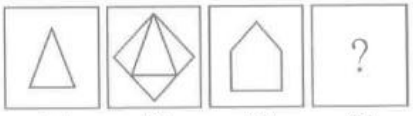
(2) 

(3) 

(4) 

Question Id : 64

65. **Problem Figures :**




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

**Answer Figures :**

(1) 

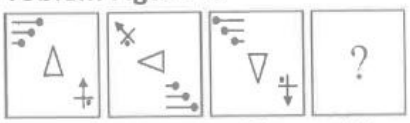
(2) 

(3) 

(4) 

Question Id : 65

66. **Problem Figures :**




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

**Answer Figures :**

(1) 

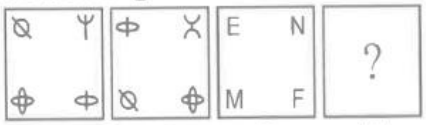
(2) 

(3) 

(4) 

Question Id : 66

67. **Problem Figures :**

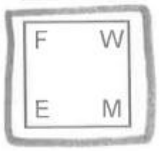



(A) (B) (C) (D)

**Answer Figures :**

(1) 

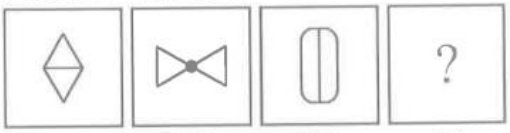

(2) 


(3) 


(4) 


Question Id : 67

68. **Problem Figures :**




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

**Answer Figures :**

(1) 

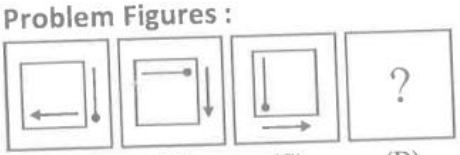
(2) 

(3) 

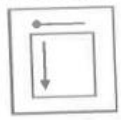
(4) 

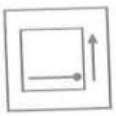
Question Id : 68

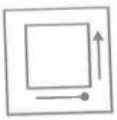
69. **Problem Figures :**

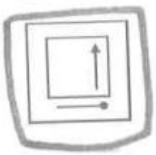



**Answer Figures :**

(1) 

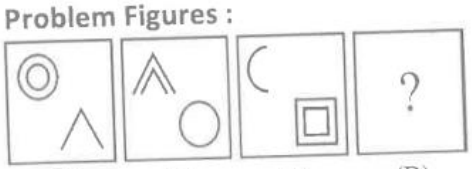
(2) 

(3) 

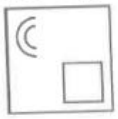
(4) 

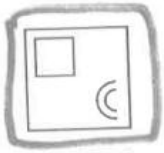
Question Id : 69

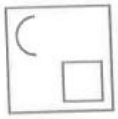
70. **Problem Figures :**




**Answer Figures :**

(1) 

(2) 

(3) 

(4) 

Question Id : 70

**Direction: In Question nos. 71 to 80:**
Questions have become wrong due to wrong order of signs. Choose the correct order of signs from the four alternatives given under each question, so that the equation becomes right. Write it in your answer sheet against the corresponding question number.

71. $17 = 3 + 43 \times 8$

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

Question Id : 71

72. $48 + 8 \div 8 = 2$

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

Question Id : 72

73. $30 \div 26 \times 8 = 7$

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

Question Id : 73

74. $3 \times 8 = 19 \div 5$

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

Question Id : 74

75. $6 + 12 = 48 - 24$

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

Question Id : 75

76. $22 = 14 + 48 - 12$

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

Question Id : 76

77. $6 - 3 = 12 \div 6$

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

Question Id : 77

78. $59 - 21 \times 8 = 10$

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

Question Id : 78

79. $5 = 4 + 11 - 9$

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

Question Id : 79

80. $4 \times 9 = 6 + 1$

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

Question Id : 80

**Direction: In Question nos. 81 to 90:**
There are four terms in each question. The term right to symbol :: have some relationship as the term of the left to the symbol :: and out of the four, one term is missing, which is among one of the given four alternatives, find the correct alternatives.

81. Chandrayan : 2019 :: Mangalyan : _____
(1) 2020 (2) 2014
(3) 2016 (4) 2017
Question Id : 81

82. P.V. Sindhu : Badminton :: Deepak Puniya : _____
(1) Boxing (2) Wrestling
(3) Cricket (4) Hockey
Question Id : 82

83. Doctor : Patient :: Lawyer : _____
(1) Accused (2) Magistrate
(3) Client (4) Customer
Question Id : 83

84. Factory : Production :: School : _____
(1) Discipline (2) Building
(3) Education (4) Teacher
Question Id : 84

85. PMG : SIX :: TIN : _____
(1) WEE (2) BEE
(3) SEE (4) WEB
Question Id : 85

86. AFC : DIF :: BED : _____
(1) CGF (2) EIG
(3) EHG (4) EGH
Question Id : 86

87. EART : CCPV : : BATH : _____
(1) CDBA (2) ZCRJ
(3) DZJR (4) DCBA
Question Id : 87

88. Durand Cup : Football :: Uber cup : _____
(1) Cricket (2) Badminton
(3) Hockey (4) Chess
Question Id : 88

89. Gir : Gujarat : : Kaziranga : _____
(1) Kerala (2) Bihar
(3) Bengal (4) Assam
Question Id : 89

90. Earth : Moon :: _____ : Phobos
(1) Jupiter (2) Mercury
(3) Mars (4) Venus
Question Id : 90

**Direction: In Question nos. 91 to 95:**
Some letters are given in Column I and some digits are given in Column II. Each digit of column II represents any letter of column I. Study the columns and write the alternative letter choosing the correct alternative against the corresponding question.

| Column – I | Column – II |
|---|---|
| AMRVT | 65479 |
| RTHIB | 46128 |
| MRBZI | 86317 |
| IAMRV | 85679 |
| HIBZA | 39218 |
| MRTAB | 47961 |
| MVRTH | 47526 |
| RZIBH | 38621 |
| BZIRV | 83156 |
| IMVRH | 75826 |

91. The code for Z is _____
(1) 8 (2) 3
(3) 2 (4) 1
Question Id : 91

92. The code for A is _____
(1) 9 (2) 6
(3) 8 (4) 3
Question Id : 92

93. The code for I is _____

(1) 2 (2) 1

(3) 8 (4) 7

Question Id : 93

94. The code for H is _____

(1) 1 (2) 3

(3) 6 (4) 2

Question Id : 94

95. The sum of the codes H and Z is _____

(1) 6 (2) 5

(3) 10 (4) 9

Question Id : 95

**Direction: In Question nos. 96 to 100:**
Read the following and answer the questions given below :
In a united family, there are six members.
(i) They are A, B, C, D, E and F.
(ii) A and B are married couple.
(iii) A is a male member.
(iv) D is the only son of C, who is the brother of A.
(v) E is the sister of D.
(vi) B is the daughter-in-law of F, whose husband has died.

96. Who is C to B ?

(1) Brother (2) Nephew

(3) Brother-in-law (4) Son

Question Id : 96

97. How is F related to A ?

(1) Sister (2) Sister-in-law

(3) Mother-in-law (4) Mother

Question Id : 97

98. How many male members are there in the family ?

(1) One (2) Two

(3) Three (4) Four

Question Id : 98

99. How is F related to C ?

(1) Mother (2) Mother-in-law

(3) Sister (4) Sister-in-law

Question Id : 99

100. How is E related to C ?

(1) Sister (2) Daughter

(3) Mother-in-law (4) Mother

Question Id : 100

# NTSE - MAT - 2019

NO Add Score

VVDSV MOHANA KRISHNA
SA (Maths)
ZPHS Chagallu, WGDT

VVDSV Mohana Krishna
5/11/19

7981766022