

## SAMPLE PAPER-01

## MENTAL ABILITY TEST

**Direction (Q.1 to Q.10):** Questions are arranged in a series with some principle underlying it. One term in the series is missing as shown by \_\_\_\_\_. This term is given as one of the alternatives amongst the four numbers given below it. Find this term and show your answer against the question number on the answer sheet.

1. 2, 6, 14, 26, \_\_\_\_\_ 62  
(1) 52 (2) 42 (3) 50 (4) 44
2. 6, 11, 21, 36, 56 \_\_\_\_\_  
(1) 51 (2) 81 (3) 91 (4) 42
3. 12, 32, 72, \_\_\_\_\_ 312  
(1) 135 (2) 152 (3) 145 (4) 125
4. 0, 3, 8, 15, \_\_\_\_\_ 35  
(1) 24 (2) 25 (3) 26 (4) 30
5. 20, 19, 17, \_\_\_\_\_ 10, 5  
(1) 12 (2) 13 (3) 14 (4) 15
6. 1, 4, 8, 32, 64, 256, \_\_\_\_\_  
(1) 426 (2) 364 (3) 512 (4) 532
7. 3, 9, 27, 81, 243, \_\_\_\_\_  
(1) 486 (2) 729 (3) 972 (4) 359
8. 5, 7, 11, \_\_\_\_\_, 35, 67  
(1) 19 (2) 24 (3) 28 (4) 32
9. 81, 64, 49, 36, \_\_\_\_\_, 16  
(1) 25 (2) 39 (3) 24 (4) 18
10. 3, 6, 18, 72, \_\_\_\_\_  
(1) 216 (2) 144 (3) 288 (4) 360

**Direction (Q.11 to Q.20):** Questions are based on letter series. In each question some letters are missing. The missing letters are given in the proper sequence as one of the four alternatives under each question.

11. ab \_\_\_\_ d \_\_\_\_ gh \_\_\_\_ j \_\_\_\_ lmn  
(1) acdlm (2) cefik (3) eefkj (4) cefki
12. badc \_\_\_\_ e \_\_\_\_ gj \_\_\_\_ l \_\_\_\_  
(1) fgki (2) hikf (3) fhik (4) fhig
13. ZY \_\_\_\_ WV \_\_\_\_ TS \_\_\_\_ QPO \_\_\_\_ M  
(1) XURN (2) NRUX (3) XRUN (4) XUXR

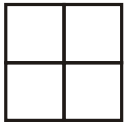
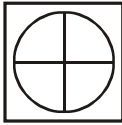


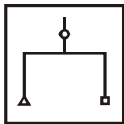
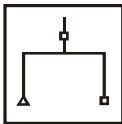
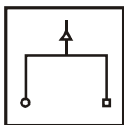
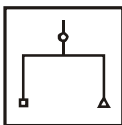
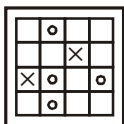
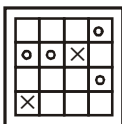
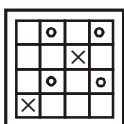
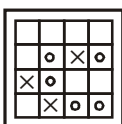
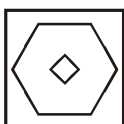
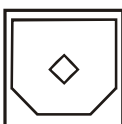
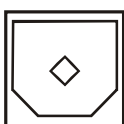
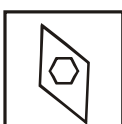
14. \_\_\_\_ bcc \_\_\_\_ ac \_\_\_\_ aabb \_\_\_\_ ab \_\_\_\_ cc  
(1) bacab (2) abcac (3) abcbb (4) bacbb
15. c \_\_\_\_ bbb \_\_\_\_ abbbb \_\_\_\_ abbb \_\_\_\_  
(1) aabcd (2) abccb (3) abcbb (4) bacbb
16. ac \_\_\_\_ bd \_\_\_\_ cbcda \_\_\_\_ a \_\_\_\_ db  
(1) dabc (2) dbbc (3) aabb (4) dbcd
17. bc \_\_\_\_ b \_\_\_\_ c \_\_\_\_ b \_\_\_\_ ccb  
(1) cbcb (2) bbcb (3) cbbc (4) bcbc
18. a \_\_\_\_ bbc \_\_\_\_ aab \_\_\_\_ cca \_\_\_\_ bbcc  
(1) bacb (2) acba (3) abba (4) caba
19. aab \_\_\_\_ aa \_\_\_\_ bbb \_\_\_\_ aaa \_\_\_\_ bbb  
(1) abba (2) baab (3) aaab (4) abab
20. aaa \_\_\_\_ b \_\_\_\_ c \_\_\_\_ d \_\_\_\_ e  
(1) bbccdee (2) ccbbdee  
(3) ccddbee (4) cbcddede

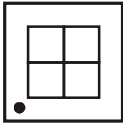
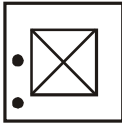
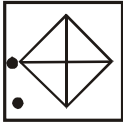

**Direction (Q.21 to Q.30):** Questions are arranged in an alphabet series with some principle. One alphabet/alphabets in the series is/are missing as shown by \_\_\_\_\_. This alphabet/alphabets is given as one of the alternatives amongst the four options given below it. Find this alphabet/alphabets and show your answer against the question number on the answer sheet.

21. A, B, F, G, K, L, \_\_\_\_\_  
(1) P (2) M (3) R (4) O
22. W, S, O, K, \_\_\_\_\_  
(1) G (2) F (3) H (4) E
23. A, F, K, P, \_\_\_\_\_  
(1) G (2) T (3) X (4) U
24. A1, D4, G7, \_\_\_\_\_  
(1) J8 (2) J9 (3) J10 (4) J11
25. C, G, L, R, \_\_\_\_\_  
(1) W (2) X (3) Y (4) Z
26. B, DE, GHI, \_\_\_\_\_  
(1) KLMN (2) HIJK (3) KJLM (4) JKLM
27. X, U, R, O, L, \_\_\_\_\_  
(1) J (2) G (3) H (4) I

28. CDE, DEF, GHI, \_\_\_\_\_  
 (1) HIJ (2) JHI (3) HJI (4) IJH
29. A, C, F, H, \_\_\_\_\_, M  
 (1) L (2) K (3) J (4) I
30. Z, U, Q, \_\_\_\_\_, L  
 (1) I (2) K (3) M (4) N

**Direction (Q.31 to Q.35):** One figure differs due to some reason. The different figure is your answer. Show it on your answersheet.

31. (1)  (2) 
- (3)  (4) 
32. (1)  (2) 
- (3)  (4) 
33. (1)  (2) 
- (3)  (4) 
34. (1)  (2) 
- (3)  (4) 

35. (1)  (2) 
- (3)  (4) 

**Direction (Q.36 to Q.40):** Combination of letters/ numbers/symbols is given. You have to find out the 'Mirror Image' from the given alternatives. Find your answer and show it on your answersheet.

36. G L A D  
 (1) G L A D (2) D A J G  
 (3) G L A D (4) D V J G
37. W - 50  
 (1) W - 20 (2) W - 50  
 (3) 05 - W (4) 05 - W
38. BLACK  
 (1) B L A C K (2) B L A C K  
 (3) B L A C K (4) K C A L B
39. MAKE  
 (1) E K A M (2) W A K E  
 (3) W A K E (4) M A K E
40. JUMP  
 (1) J U M P (2) J U M P  
 (3) P M U J (4) P M U J
41. There are 100 birds on a tree, in fire of a hunter 6 birds are died immediately and lying down from tree, 5 are majorly injured, 3 are injured, how many birds left on tree?  
 (1) 94 birds (2) 89 birds  
 (3) 86 birds (4) No birds

42. A firing sound of one revolver, taking 2 minutes from one place to another place if 12 revolver fired, how much time will firing sound take to reach same place?  
 (1) 12 minutes (2) 1/2 minutes  
 (3) 1 minutes (4) 2 minutes
43. Sum of age of 10 students before 10 years was 10 years, after 10 years what will be the sum of age of 10 students?  
 (1) 200 (2) 210 (3) 100 (4) 110
44. A is father of B, but B is not son of A, then what is relation between them?  
 (1) Father - Son  
 (2) Father - Grand Son  
 (3) Father - Daughter  
 (4) Father - Grand Daughter
45. Which is different word from following?  
 (1) Father (2) Mother  
 (3) Friend (4) Brother
46. Mayank said 'My mother is sister of Rajat's Brother.' What is the relation between Rajat and Mayank?  
 (1) Maternal uncle (2) Paternal uncle  
 (3) Brother (4) None of three
47. Sandip's mother is the only daughter of Rekha's father. What is the relation between Rakha's husband and Sandip?  
 (1) Paternal uncle (2) Father  
 (3) Brother (4) Grand father
48. Rita drives a vechicle 10 km to north, then turns to right side and driving 4 km, then turns to left side and driving 5 km, then turns to left side and driving 4 km, so how far is she from starting point?  
 (1) 15 km (2) 12 km  
 (3) 10 km (4) 20 km

49. Kiran was standing on road after sunrise in the morning. Namrata came from Kiran's opposite side. She saw Kiran's shadow to her left. Which side was Kiran facing?  
 (1) South (2) South-West  
 (3) North - East (4) North
50. The clock shows 2.45. In which direction will hour hand be, if the minute hand is in North-East?  
 (1) North-West (2) South - East  
 (3) South - West (4) North- East

**Directions(Q.51 to Q.53):** Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

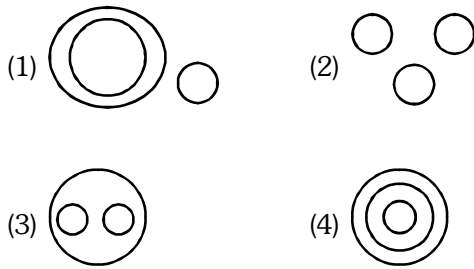
51. A, CD, GHI, ?, UVWXY  
 (1) KLMN (2) LMNO  
 (3) MNOP (4) NOPQ
52. ADVENTURE, DVENTURE, DVENTUR, ?, VENTU  
 (1) VENTUR (2) VENTURE  
 (3) DVENT (4) DVENTU
53. UPI, ?, ODP, MBQ, IAW  
 (1) SIJ (2) SHJ (3) RHJ (4) TIJ
54. Which of the following diagrams indicates the relation between Judge, Thieves and Criminals ?



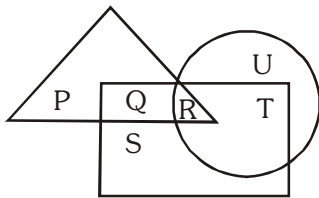
55. Which of the following diagrams indicates the relation between Iron, Lead and Nitrogen?



56. Which of the following diagrams indicates the relation between Bulb, Lamp and light ?

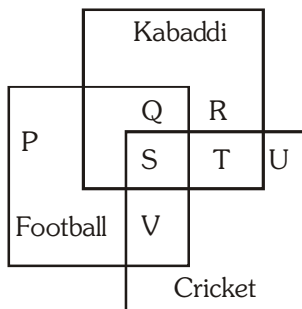


57. In the following figure, triangle represents 'girls', square, 'players' and circle, 'coach'. Which part of the diagram represents the girls who are players but not coach ?



- (1) P      (2) Q      (3) R      (4) S

58. The diagram given below represents those students who play Cricket, Football and kabaddi. Study the diagram and identify the students who play all three games.



- (1) P + Q + R      (2) V + T  
(3) S + T + V      (4) S

Directions(Q.59 to Q.62): P, Q, R, S, T, U, V and W are sitting round the circle and are facing the centre:

- P is second to the right of T who is the neighbour of R and V.
- S is not the neighbour of P.
- V is the neighbour of U.
- Q is not between S and W, and W is not between U and S.

Answer the questions from the above sitting arrangement.

59. Who two of the following are not neighbours ?

- (1) RV      (2) UV      (3) RP      (4) QW

60. Who is immediate right to the V ?

- (1) P      (2) U      (3) R      (4) T

61. Which of the following is correct ?

- (1) P is to the immediate right of Q  
(2) R is between U and V  
(3) Q is to the immediate left of W  
(4) U is between W and S

62. What is the position of S ?

- (1) Between U and V  
(2) Second to the right of P  
(3) To the immediate right of W  
(4) Data inadequate

Directions(Q.63 to Q.66): Five girls are sitting on a bench to be photographed Seema is to the left of Rani and to the right of Bindu, Mary is to the right of Rani. Reeta is between Rani and Mary. Answer the questions from the above sitting arrangement.

63. Who is sitting immediate right to Reeta ?

- (1) Bindu      (2) Rani  
(3) Mary      (4) Seema

64. Who is in the middle of the photograph ?

- (1) Bindu      (2) Rani  
(3) Reeta      (4) Seema

65. Who is second from the right in the photograph ?

- (1) Mary      (2) Rani  
(3) Reeta      (4) Bindu

66. Who is second from the left in photograph ?

- (1) Reeta      (2) Mary  
(3) Bindu      (4) Seema

Directions(Q.67 to Q.69): Choose the word which is different from the rest.

67. (1) Producer      (2) Director  
(3) Investor      (4) Financer

68. (1) Calendar      (2) Year  
(3) Day      (4) Month

69. (1) Mumbai      (2) Cochin  
(3) Kandla      (4) Mysore

70. If A + B means A is the father of B; A-B means A is the brother B; A % B means A is the wife of B and A × B means A is the mother of B, which of the following shows that M is the maternal grandmother of T ?

- (1) M × N % S + T           (2) M × N - S % T  
(3) M × S - N % T           (4) M × N × S % T

71. 1. B5D means B is the father of D.  
2. B9D means B is the sister of D.  
3. B4D means B is the brother of D.  
4. B3D means B is the wife of D.

Which of the following means F is the mother of K?

- (1) F3M5K                      (2) F5M3K  
(3) F9M4N3K               (4) F3M5N3K

72. If POND is coded RSTL how is HEAR written in the code ?

- (1) GHIJ                      (2) JIGZ  
(3) GHIZ                      (4) None of these

73. If SPIDER is coded as PSDIRE, how is COMMON written in that code ?

- (1) OCMMNO               (2) OCMMOO  
(3) OCMOON               (4) OCMOMN

**Directions(Q.74 to Q.76):** All the six members of a family A, B, C, D, E & F are staying together. B is the son of C but C is not the mother of B. A & C are married couple. E is the brother of C. D is the daughter of A. F is the brother of B.

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

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

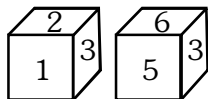
75. Who is the mother of B ?

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

76. How many children does A have ?

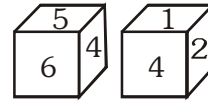
- (1) 1           (2) 3           (3) 2           (4) 4

77. Which digit will appear on the face opposite to the face with number 3 ?



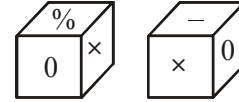
- (1) 4           (2) 5           (3) 6           (4) 2

78. Which number is on the face opposite to 6 ?



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

79. Which sign will be opposite to '+' ?



- (1) %           (2) -           (3) ×           (4) \$

**Directions(Q.80 to Q.85):** Find out the alternative which will replace the question mark.

80. AZBY : CXDW :: EVFU : ?

- (1) GTHS   (2) GHTS   (3) GSTH   (4) TGSB

81. ZRYQ : KCJB :: PWOV : ?

- (1) GBHA   (2) ISJT   (3) ELDK   (4) EOFP

82. Computer : fqprxvht :: Language : ?

- (1) oxpidxig                      (2) ocqicyig  
(3) ocqixcig                      (4) ocqixcig

83. ACEG : ? :: BDFH : KMOQ

- (1) NLPR                      (2) LMNO  
(3) JLNP                      (4) JNLO

84. M × N : 13 × 14 :: F × R : ?

- (1) 14 × 15                      (2) 5 × 17  
(3) 6 × 18                      (4) 7 × 19

85. Conference : Chairman :: Newspaper : ?

- (1) Reporter                      (2) Distributor  
(3) Printer                      (4) Editor

**Directions(Q.86 & Q.87):** Find out the alternative which will replace the questions (?) mark.

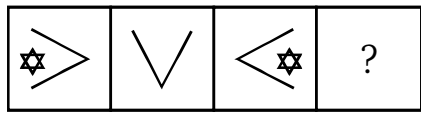
86. Problem figures



A           B           C           D

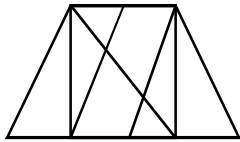
- (1)           (2)   
(3)           (4)

87. Problem Figures



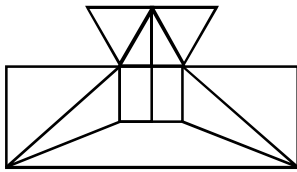
- (1) (2) (3) (4)

88. Find the number of triangle in the figure below.  
Problem figure



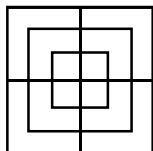
- (1) 8 (2) 10 (3) 12 (4) 14

89. Find the minimum number of straight lines required to make the given figure.



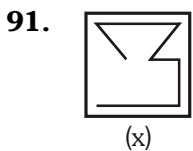
- (1) 16 (2) 17 (3) 18 (4) 19

90. Count the number of squares in the given figure.

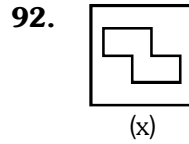


- (1) 8 (2) 12 (3) 15 (4) 18

Direction (Q.91 & Q.92) : Find out the alternative figure which contains figure (x) as its part.

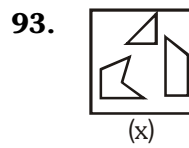


- (1) (2) (3) (4)

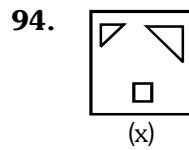


- (1) (2) (3) (4)

Directions(Q.93 & Q.94): Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (x).

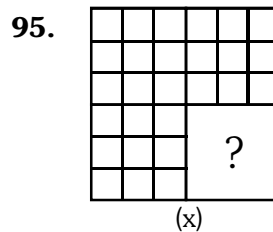


- (1) (2) (3) (4)



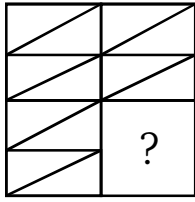
- (1) (2) (3) (4)

Directions(Q.95 to Q.98): Identify the figure that completes the pattern (x).

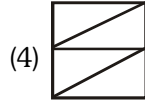
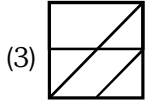
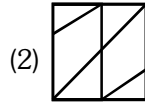
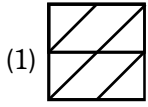


- (1) (2) (3) (4)

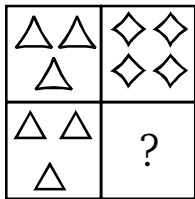
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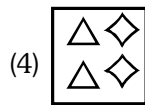
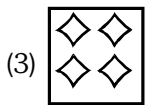
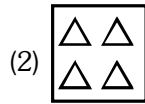
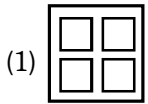
(x)



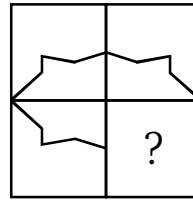
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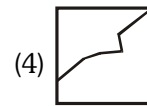
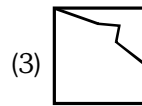
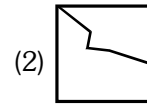
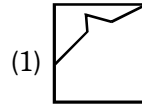
(x)



98.



(x)



**Directions(Q.99 & Q.100):** In these series, there are both letter pattern and number pattern. Fill the blank in series.

99.  $ZA_5, Y_4B, XC_6, W_3D, ?$

(1)  $E_7V$

(2)  $V_2E$

(3)  $VE_5$

(4)  $VE_7$

100.  $DEF, DEF_2, DE_2F_2, ?, D_2E_2F_3$

(1)  $DEF_3$

(2)  $D_3EF_3$

(3)  $D_2E_3F$

(4)  $D_2E_2F_2$

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SPACE FOR ROUGH WORK