Directions(Q.1 & Q.2): Find the odd term out.

1.   (1)   (2)

     (3)   (4)

2.   (1)   (2)

     (3)   (4)

Directions(Q.3 & Q.4): In the following questions a specific group is given. From the given alternatives, find out the right term which matches the given group.

3.   123, 147, 173
     (1) 201   (2) 225   (3) 169   (4) 144
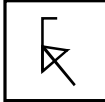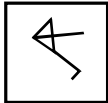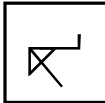
4.   XWVU, SRAP, NMLK
     (1) BCDE   (2) QRST   (3) MNOP   (4) IHGF

Directions(Q.5 to Q.8): Write which number or alphabet in sequence replaces the question mark (?).
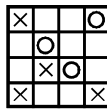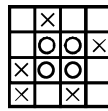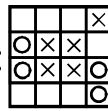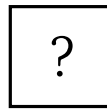
5.   1234, 1240, 1246, 1258, 1268, ?
     (1) 1280   (2) 1284   (3) 1285   (4) 1290

6.   21, 23, 29, 47, 75, ?
     (1) 87   (2) 92   (3) 99   (4) 110

7.   K16M, H19J, E22G, ?
     (1) D23B   (2) B24D   (3) B25D   (4) C24E

8.   MNZA, LOYB, KPXC, JQWD, ?
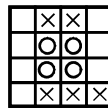   (1) IREV   (2) HSUF   (3) GTTG   (4) IRVE

Directions(Q.9 to Q.12): In each of the following questions there is a specific relationship between the first and second term. The same relationship exists between the third and fourth term which will replace the question mark (?). Select the correct term from the alternatives given.

9.   EFH : ILM : : ? : ?
     (1) ILM : OPQ   (2) EGH : IMN
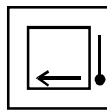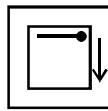   (3) OPR : URT   (4) OPQ : UBT
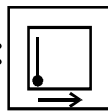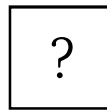
10. BJH : EQL : : DNJ : ?
     (1) IYO   (2) KZQ   (3) GKI   (4) GUN

11.

     (1)   (2)

     (3)   (4)

12.

     (1)   (2)

     (3)   (4)

13. a m b c c m a m c b c a m c a b a c a m c m a m c b.
     In the given alphabet series how many times 'm' is preceded by 'a' and succeeded by 'c'.
     (1) 6   (2) 3   (3) 5   (4) 4

14. In a certain code language if SAM is written as 15321, then in the same code how will the word ART be written ?
     (1) 32022   (2) 20181   (3) 11820   (4) 22203

15. In a certain code language if D = 4 and DEAR = 7, then how will the word HOTEL be written ?
     (1) 8   (2) 10   (3) 12   (4) 20

16. A, B, C, D E and F are six families living in different houses in a row. F and D are neighbours of B. E is neighbour of A and C. A is not a neighbour of F or D also if C is not a neighbour of D, then who is the neighbour of F ?
     (1) B and C   (2) B and F
     (3) B and D   (4) Only B

Directions(Q.17 & Q.18): Suresh and Urmila are good at singing. Suman being expert in elocution sings sweetly. Parag being an orator is also good at acting and singing. Vijaya, a dramatist, also delivers good lectures. Pictures drawn by Parag and Suresh are in great demand. Find answers to the following questions from the given alternatives.

17. Who has all the skills ?

(1) Suman (2) Urmila (3) Vijaya (4) Parag

18. Who is not an expert in elocution ?

(1) Suman and Vijaya (2) Vijaya

(3) Suresh and Urmila (4) Urmila

19. A transparent square shaped paper is folded along the dotted lines. What figure will be obtained ? Find the figure from the alternative figure given:

Question Figure
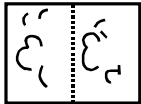
(1) (2)

(3) (4)

Directions(Q.20 and Q.21): Find the correct alternative which will replace the question mark.

20.

(1) 262 (2) 622 (3) 631 (4) 824

21.

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

22. Birthday of three siblings falls on 1ˢᵗ August. Ages of Kshama and Rama on 1ˢᵗ August 2002 were seven years and three years respectively. If Uma is neither elder to Kshama, nor younger to Rama, then among the following, which is the birth year of Uma.

(1) 1995 (2) 1994 (3) 1997 (4) 1999

Directions(Q.23 to Q.25): Find the odd term out.

23. (1) 7830 (2) 6234 (3) 3246 (4) 7521

24. (1) R22D (2) P36T (3) M29G (4) V24B

25. (1) CGIN (2) BDFH (3) EJOT (4) DHLP

Directions(Q26 & Q.27): Using alphabets A to Z in sections of figure I and II a code has been created. First letter in every section is coded according to its shape and the second letter is coded using a dot.

A is coded as ⌐| ; C is coded as ▣ ; T is coded

as ⟩; L is coded as ⌵•.

Figure I   Figure II

26. What will be the code of RING ?

(1) (2)

(3) (4)

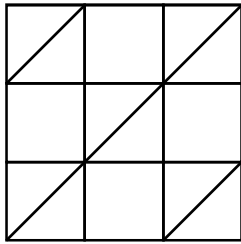**27.** What will be the code of SEVAK ?

(1)

(2)

(3)

(4)

28. A rhythmic arrangement of alphabets is given. The missing letter alphabets appear in the same order in one of the alternative answers.

Find the correct alternative:
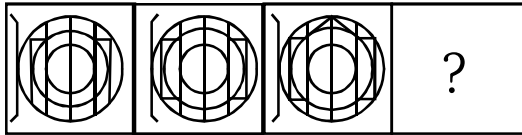
_bc_ca_aba_c_ca

(1) abbcc (2) bacba (3) bbbcc (4) abcbb

29. How many trapesium are there in the following figure ?

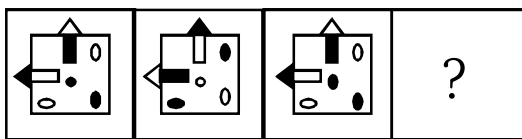(1) 20   (2) 10   (3) 08   (4) 24

Directions(Q.30 & Q.31): In each of the following questions figures changes in a particular order. Find out the correct figure from the alternatives which will replace the question mark (?).

30. Questions figures

31. Questions figures

32. Vivek is standing at the centre of a row of boys. Subhash is sixth to the right of Vivek. Niwas is standing fifteenth to the left of Subhash. Niwas is standing eleventh to the right of Yogesh. Find the total number of boys standing in a row.

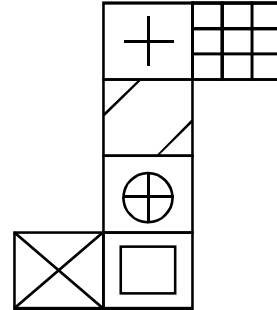(1) 38   (2) 41   (3) 40   (4) 42

33. If 'F' letter is on the upper surface of a cube, then which letter will be on the lower surface ?
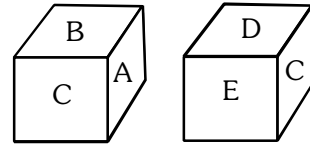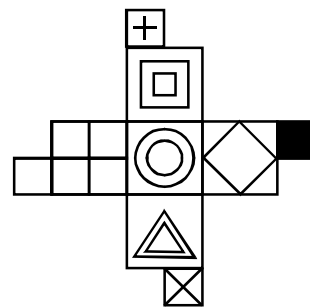

(1) B   (2) C   (3) D   (4) E

34. The figure given is folded to form a cube. Of the following figure, find the non-relevant figure.

**35.** The adjoining figure is folded to form a cube. Of the following cube figures, find the most relevant figure.

Directions(Q.36 to Q.38): Information was gathered based on observations of readers of three newspapers A, B and C. 26% people read newspaper A, 25% people read newspaper B, 14% people read newspaper C, 11% people read both newspapers A and B, 10% people read both newspapers B and C, 9% people read both newspapers A and C and 0% people read only newspaper C. Based on this information answer the following questions.

36. What is the average of readers all three newspapers ?

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

37. What is the average of people who read both A and B newspaper but do not read C newspaper ?

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

38. What is the average of number of readers who read at least one newspaper ?

(1) 40   (2) 50   (3) 60   (4) 65

39. A folded piece of square paper is shown as question figure. The paper is unfolded. How will it look is shown in the alternatives. Select the correct alternative.

Question Figure
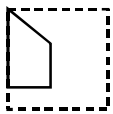
Directions(Q.40 & Q.41): Two tables are given below, which two groups of alphabets are written. In table I the row and columns are numbered 0-4 and in table II the rows and columns are numbered 5-9. The alphabets in the tables are represented first by their row number and then by their column number e.g. A is represented as A = 12, 44.

Table I

	0	1	2	3	4
0	D	O	B	A	I
1	O	B	A	I	D
2	B	A	I	D	O
3	A	I	D	O	B
4	I	D	O	B	A

Table II

	5	6	7	8	9
5	W	N	R	M	L
6	N	R	M	L	W
7	R	M	L	W	N
8	M	L	W	N	R
9	L	W	N	R	M

40. Which group of numbers represents DRAW ?
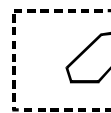
(1) 41, 66, 23, 55   (2) 14, 89, 12, 98

(3) 23, 56, 30, 68   (4) 32, 75, 44, 76

41. Which group of numbers represents LOAN ?

(1) 95, 33, 12, 58   (2) 77, 10, 42, 97

(3) 68, 42, 03, 56   (4) 59, 24, 12, 67

42. A square piece of paper is folded and cut at specific spots as shown in the figure. The paper when unfolded will look as shown in one of the alternatives. Select the correct alternative.
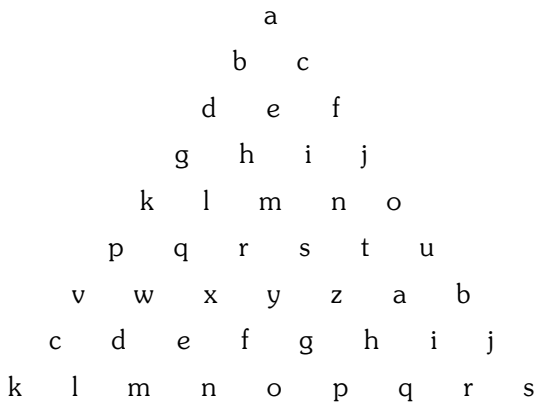
Question Figure

Directions(Q.43 to Q.45): In each of the following questions there is a specific relationship between the first and second term. The same relationship exists between the third and the fourth term. Understanding the relation find the term which will replace the question mark (?).

43. 82 : 40 : : 36 : ?

(1) 19   (2) 15   (3) 74   (4) 17

44. 4 : 48 : : ? : 180

(1) 8   (2) 6   (3) 10   (4) 12

45. 15 : 36 : : 21 : ?

(1) 48   (2) 35   (3) 45   (4) 23

Directions(Q.46 & Q.47): Frontal surface of a cube of length 4 cm is painted yellow. Similarly other surface is painted blue the other two sides are painted green and red. The cube is then converted into 64 small cubes. Answer the following questions:

46. How many cubes have maximum two surfaces coloured ?

(1) 56   (2) 48

(3) 24   (4) 8

47. How many cubes have one surface painted yellow ?

(1) 24   (2) 32

(3) 16   (4) 8

48. Prakash is standing facing East. After turning 180° in anticlockwise direction, he travels straight for 8 km. Turning to right he travels 2 km, then again turns right and travels 11 km, again turns right and covers 6 km. How far is he from his starting point ?

(1) 10 km   (2) 3 km

(3) 5 km   (4) 13 km

**Directions(Q.49 & Q.50):** Observe the pyramid of alphabets. Answer the following questions:

```
                    a
                 b     c
              d     e     f
           g     h     i     j
        k     l     m     n     o
     p     q     r     s     t     u
  v     w     x     y     z     a     b
c     d     e     f     g     h     i     j
k     l     m     n     o     p     q     r     s
```

49. Which term is related to the terms vwdlkc, qrxedw, stzgfy ?

(1) fghpoq   (2) mnsyxr

(3) ubiqph   (4) cehmsn

50 Find the term which replaces the question mark (?)

dheif : mfogp : : sztau : ?

(1) eacif   (2) yzsat   (3) rxqwp   (4) rsyfe

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 ?
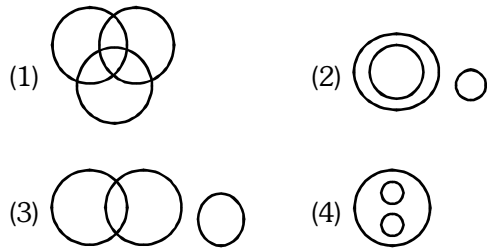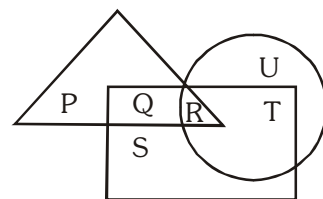

55. Which of the following diagrams indicates the relation between Iron, Lead and Nitrogen?
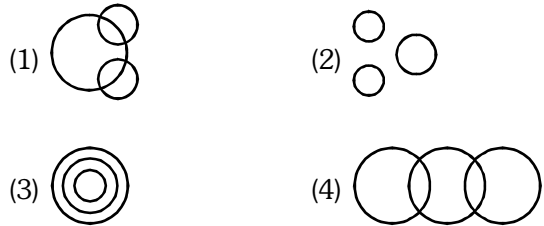
**56.** Which of the following diagrams indicates the relation between Bulb, Lamp and light ?
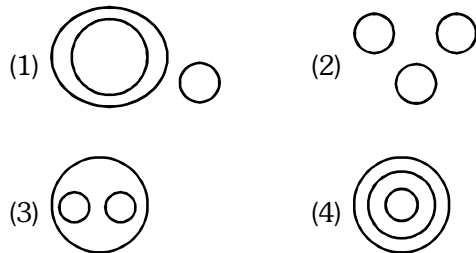
57. In the following figure, triangle represents 'girls', square, 'players' and circle, 'coach'. Which part of the diagram represents the girls who are players but not coach ?

(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.
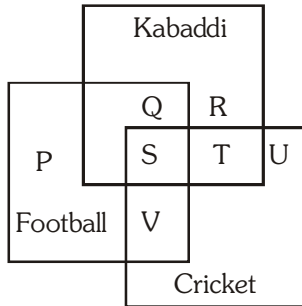
(1) P + Q + R

(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:

1. P is second to the right of T who is the neighbour of R and V.

2. S is not the neighbour of P.

3. V is the neighbour of U.

4. 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 netween 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

ALLEN

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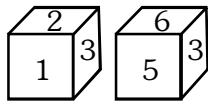
(1) 4   (2) 5   (3) 6   (4) 2

78. Which number is on the face opposite to 6 ?
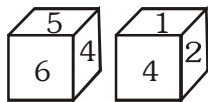
(1) 4   (2) 1   (3) 2   (4) 3

79. Which sign will be opposite to '+' ?
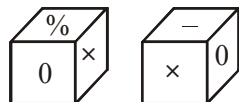
(1) %   (2) –   (3) ×   (4) $

Directions(Q.80 to Q.87): Find out the alternative which will replace the question mark.

80. AZBY : CXDW :: EVFU : ?

(1) GTHS   (2) GHTS   (3) GSTH   (4) TGSH

81. ZRYQ : KCJB :: PWOV : ?

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

82. Computer : fqprxvht :: Language : ?

(1) oxpixdig   (2) ocqicyig

(3) ocqixcjg   (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

86. Problem figures
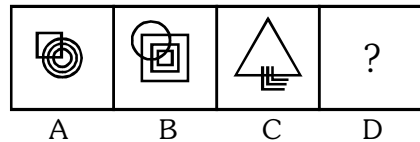
87. Problem Figures
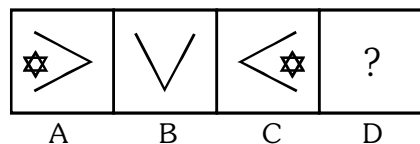
88. Find the number of triangle in the figure below. Problem figure
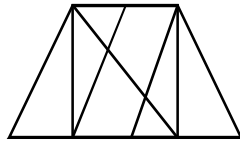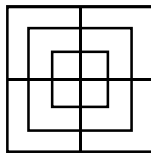

    (1) 8   (2) 10   (3) 12   (4) 14

89. Find the minimum number of straight lines required to make the given figure.
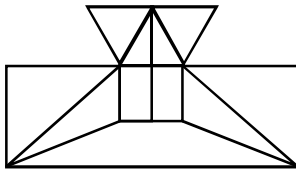
    (1) 16   (2) 17   (3) 18   (4) 19

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

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

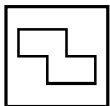**Direction (Q.91 & Q.92) :** Find out the alternative figure which contains figure (x) as its part.
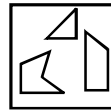
91.

(x)

92.

(x)

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).

93.

(x)

94.

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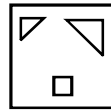
Directions(Q.95 to Q.98): Identify the figure that completes the pattern (x).

95.

(x)

96.

(x)

(1)

(2)

(3)

(4)
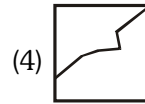
97.

(x)

(1)

(2)

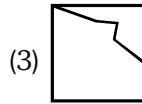(3)

(4)

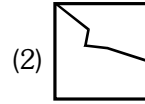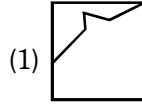**98.**

(x)

(1)

(2)

(3)

(4)
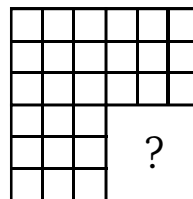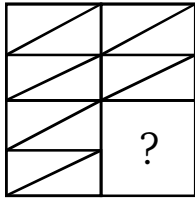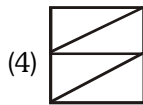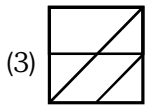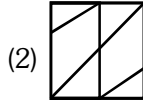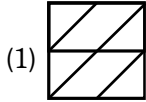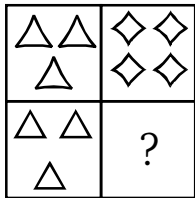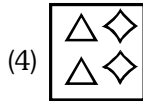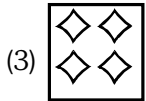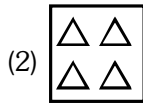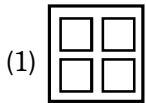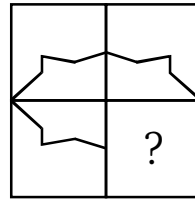
Directions(Q.99 & Q.100): In these series, there are both letter pattern and number pattern. Fill the blank in series.

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, DE_2F_2, ?, $D_2E_2F_3$

(1) DEF_3

(2) D_3EF_3

(3) D_2E_3F

(4) $D_2E_2F_2$

SPACE FOR ROUGH WORK