Q. 1 to 3 : Direction In the following questions a specific group of numbers is given. From the given alternatives. Find out the correct alterantive that matches the given group.

1. 150 576 252

(1) 393 (2) 466 (3) 80 (4) 182.

2. 132 736 350

(1) 223 (2) 72 (3) 505 (4) 993.

3. 193 454 265

(1) 572 (2) 823 (3) 734 (4) 367.

Q. 4 and 5 : Direction Find the odd term.

4. (1) DUFW (2) HQJS (3) JOLQ (4) AWCZ

5. (1) AEVZ (2) FJQU (3) CQTX (4) JMOS.

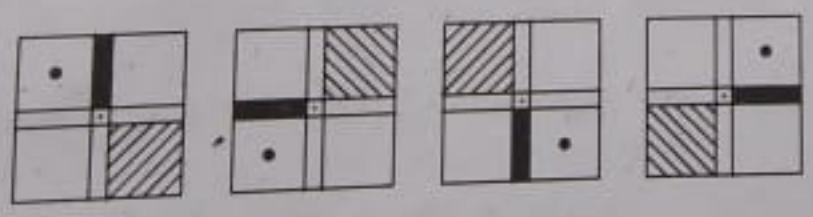
6. ABCDEFGHIJKLMNOPQRSTUVWXYZ

From the above alphabets which word will be formed from the given alterantives if the meaningful word formed by the 5th and 10th letter from the right and 1st and 5th letter from the left is written in the reverse order.

(1) VEAS (2) SAEV (3) AVES (4) EVAS

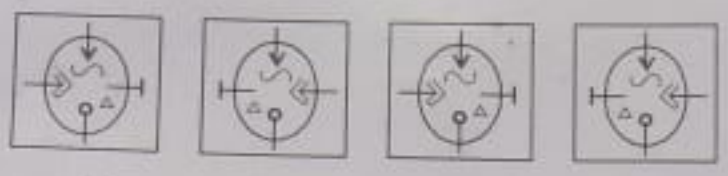
Q. 7 to 9 : Direction Find the odd figure.

7.

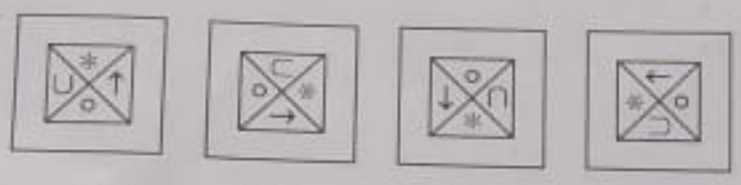


(1) (2) (3) (4)

SPACE FOR ROUGH WORK

8. 

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

9. 

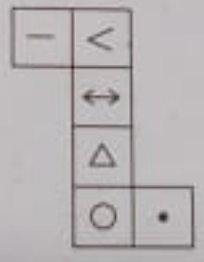
(1) (2) (3) (4)

10. In the following question there is a specific relation between first and second term. The same relationship exists between third and the fourth term. Considering the same relationship choose the correct alternative that will replace the question mark.

11529 : 72135 :: 152943 : ?

(1) 213549 (2) 223649 (3) 224194 (4) 215049.

Q. 11 to 13 : Direction The adjacent figure is folded to form a cube. Observe the figure and answer the following questions.



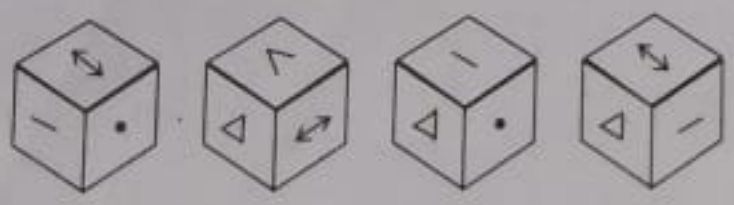
11. Which symbol will not be adjacent to the symbol '.' ?

(1) < (2) – (3) ↔ (4) Δ

12. Which symbol will be opposite to the symbol Δ ?

(1) ↔ (2) . (3) < (4) –

13. Which of the following figure is the figure obtained by folding the paper to form a cube ?

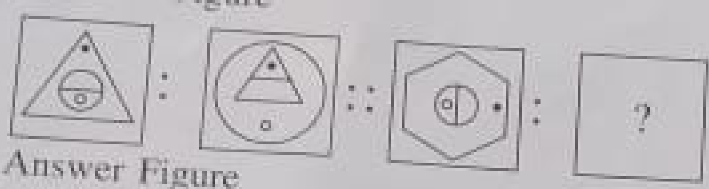


(1) (2) (3) (4)

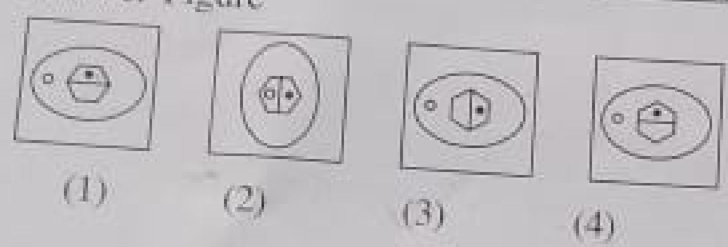
SPACE FOR ROUGH WORK

Q. 14 to 16 : Direction In each of the following questions, there is a specific relationship between the first and the second figure. The same relationship exists between the third and the fourth figure. Find the relation and choose the correct answer to replace the question mark.

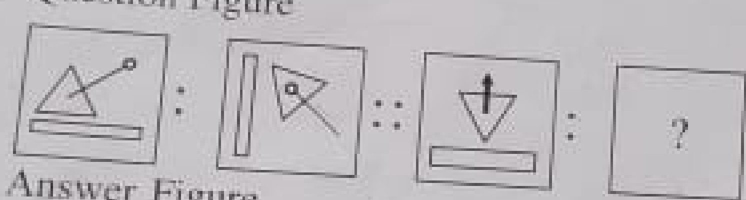
14. Question Figure



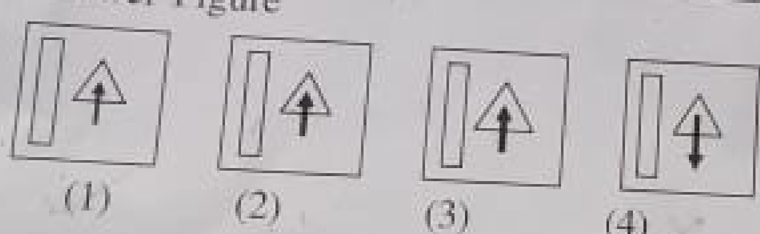
Answer Figure



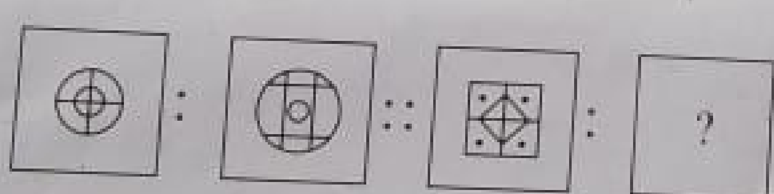
15. Question Figure

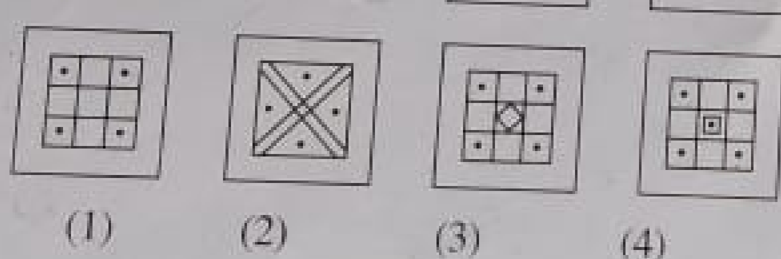


Answer Figure



16.





Q. 17 to 20 : Direction In each of the following questions, choose the correct alternative that will replace the question mark in the given sequence.

17. 4, 6, 16, 62, 308, ?

(1) 990 (2) 1721 (3) 698 (4) 1846.

SPACE FOR ROUGH WORK

18. 6, 9, 18, 21, 42, 45, ? , ?

(1) 90, 91 (2) 90, 92 (3) 90, 93 (4) 90, 94.

19. 7, 13, 25, 43, 67 ?

(1) 97 (2) 98 (3) 99 (4) 100.

20. 3624, 4363, 3644, 4563, 3664, ?

(1) 4263 (2) 4363 (3) 4536 (4) 4763.

Q. 21 to 23 : Direction Atul, Tushar, Nishant and Amar are four players. Except Nishant all play cricket. Atul plays only cricket and football. Only three players play football. Tushar plays all the games except kho-kho. Only one player does not play kabaddi. Only Nishant does not play football. Nishant and Amar are expert in kho-kho.

21. Which game Tushar, Nishant and Amar play ?

(1) Kabaddi (2) Kho-Kho (3) Cricket (4) Football.

22. Who plays all the games ?

(1) Atul (2) Tushar (3) Nishant (4) Amar.

23. Which game is played by only two players ?

(1) Cricket (2) Kabaddi (3) Football (4) Kho-kho.

Q. 24 and 25 : Direction A rhythmic arrangement of letters is given. The missing letters appear in the same order in one of the alternative answer. Choose the correct alternative.

24. ab - bc - c - ba - c

(1) baac (2) aabb (3) caab (4) aaab.

25. abb -baa -- bb - b - ab

(1) bbaba (2) abaaa (3) abbba (4) ababa.

SPACE FOR ROUGH WORK

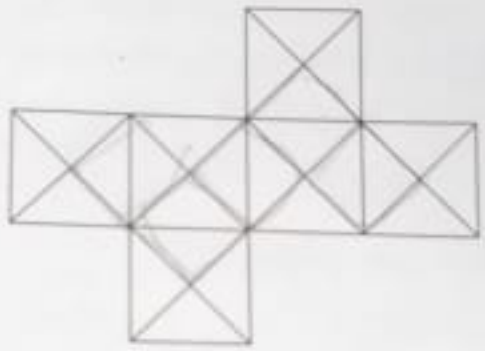
abbbcacabacc

ababcacbbabc

26. Find the number of triangles in the adjacent figure :

(1) 12 (2) 16 (3) 20 (4) 24.

27. Find the number of Squares from the adjacent figure :



(1) 6 (2) 11 (3) 13 (4) 10.

Q. 28 to 31 : Direction Choose the correct alternative that will replace the question mark.

28. JDP, NGR, RJT, VMV, ?

(1) ZPW (2) ZQY (3) ZPX (4) ZRY.

29. $V_{422}D$, $S_{719}G$, $P_{1016}J$, $M_{1313}M$, ?

(1) $K_{1711}P$ (2) $J_{1610}P$ (3) $J_{1611}P$ (4) $I_{1512}O$.

30. 29AYC, EUG33, IQ37K, ?

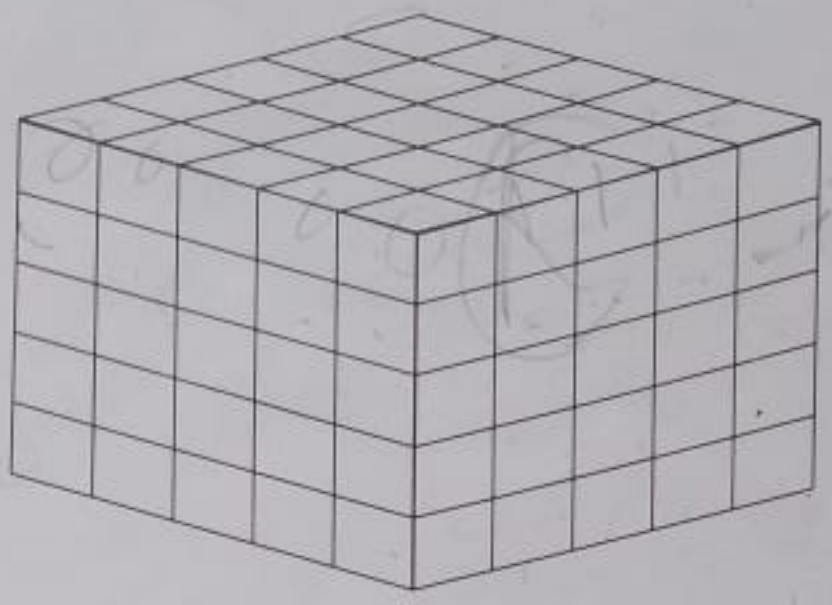
(1) MMO_{41} (2) MZB_{41} (3) MNP_{43} (4) MPO_{44}

31. ZAB, WDE, SHI, NMA, ?

(1) VEF (2) UFG (3) FUG (4) HSG.

SPACE FOR ROUGH WORK

Q. 32 to 34 : Direction The bottom and the top surface of a cube, having each side 5 units, is painted black. The opposite surfaces of the cube are red. Then the cube is cut into smaller cubes having each side 1 unit. On the basis of this information choose the correct alternative to answer the questions.



32. How many cubes have at least one surface painted ?

(1) 125 (2) 116 (3) 100 (4) 98.

33. How many cubes have only red surface ?

(1) 18 (2) 30 (3) 48 (4) 60.

34. How many cubes have surfaces in both the colours, black and red ?

(1) 25 (2) 50 (3) 8 (4) 20.

35. If in a mathematical code language

$\Delta + \nabla = 9$, $\triangleleft + \triangleright = 13$, $\triangleright + \Delta = 11$ and $\nabla + \odot = 12$ then find the value of $\odot$ from the following alternatives.

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

36. In a certain code language if $\$ \times ₹ = 35$, $E \times \$ = 30$. $₹ \times U = 63$ and $U \times \# = 36$ then find the value of #.

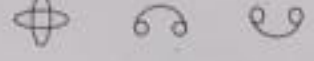
(1) 6 (2) 4 (3) 5 (4) 9.

SPACE FOR ROUGH WORK

Q. 37 and 38 : Direction In the following table the digits are assigned with certain symbols. Observe them carefully and choose the correct alternative to answer the questions.

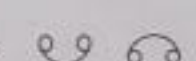
Digit	9	0	8	1	7	2	6	3	5	4
Symbol										

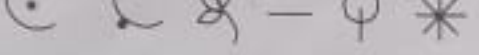
37.  = ?

(1) 

(2) 

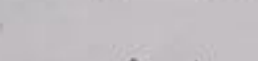
(3) 

(4) 

38.  = ?

(1) 

(2) 

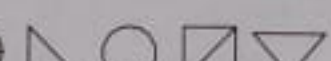
(3) 

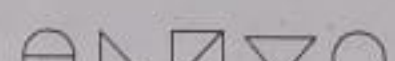
(4) 

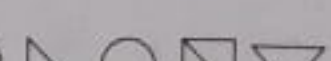
Q. 39 and 40 : Direction In the following sequence. Choose the correct term that will replace the question mark.

39. 

(1) 

(2) 

(3) 

(4) 

40. αβθρδ, βαθρδ, βθαρδ, βθρδα, ?

(1) βθραδ

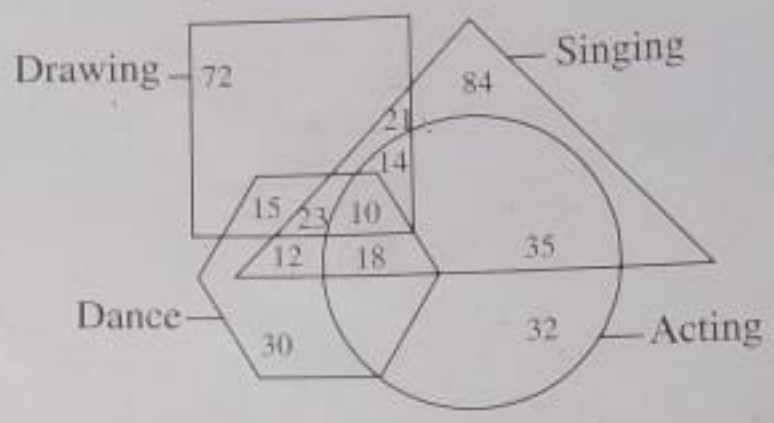
(2) βθδαρ

(3) βθδρα

(4) βθρδα

SPACE FOR ROUGH WORK

Q. 41 to 43 : Direction In the adjacent figure the numbers represent the number of artists in different arts. Observe the diagram carefully and choose the correct alternative to answer the questions.



41. How many artists are expert in all the arts ?

(1) 23 (2) 10 (3) 14 (4) 33.

42. How many artists are good in 'acting' ?

(1) 35 (2) 77 (3) 67 (4) 32.

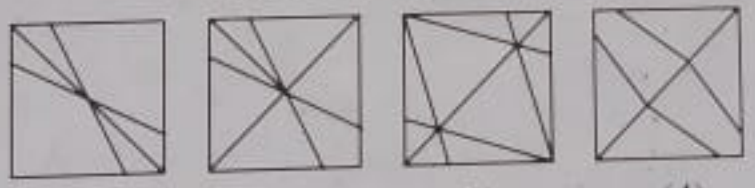
43. How many artists are good in only two arts ?

(1) 65 (2) 97 (3) 83 (4) 71.

Q. 44 and 45 : Direction After folding a square piece of paper it appears as shown in the question figure. The paper when unfolded will look like as shown in one of the alternatives. Select the correct alternative.

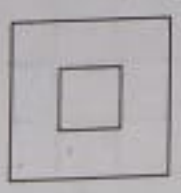
44. Question Figure

Answer Figure

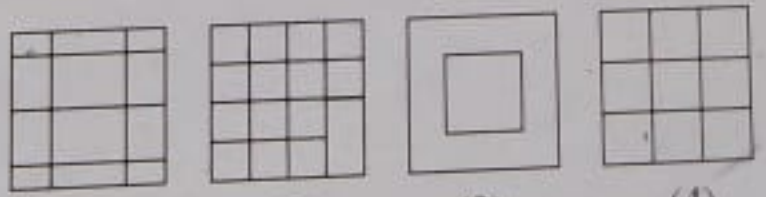


(1) (2) (3) (4)

45. Question Figure



Answer Figure

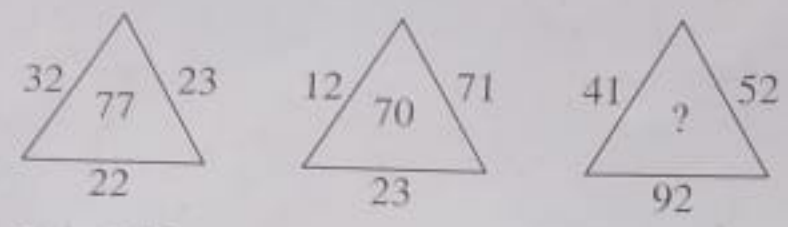


(1) (2) (3) (4)

SPACE FOR ROUGH WORK

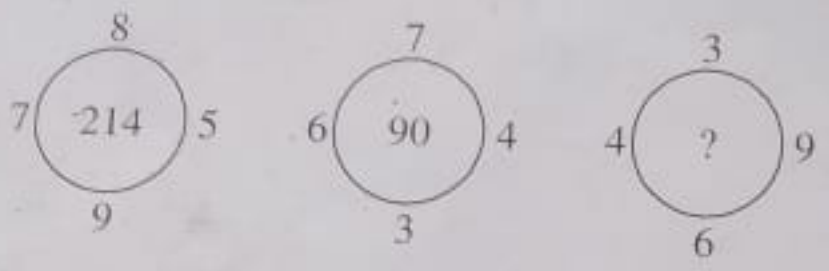
Q. 46 and 47: Direction Identify the rule in the following arrangement of numbers. Choose t correct alternative that will replace the question mark.

46.



(1) 185 (2) 68 (3) 78 (4) 93.

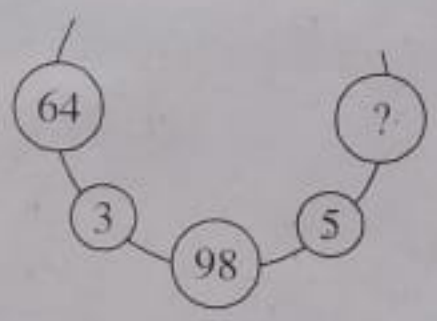
47.



(1) 54 (2) 73 (3) 92 (4) 108.

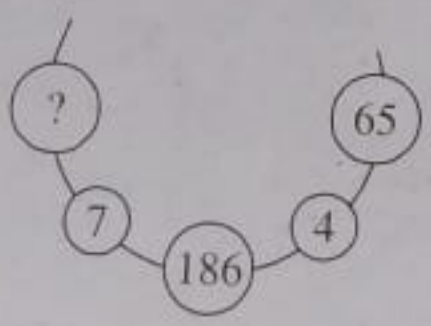
Q. 48 to 50 : Direction There is a specific rule in the following arrangement of numbers. Study tha rule carefully. According to that rule choose the correct alternative for the questions that follow

48.



(1) 30 (2) 32 (3) 34 (4) 52.

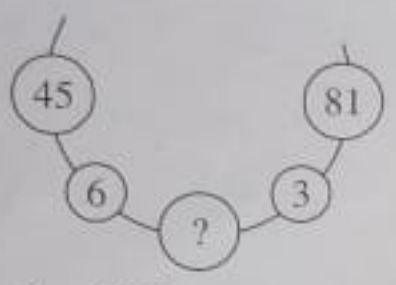
49.



(1) 57 (2) 84 (3) 98 (4) 121.

SPACE FOR ROUGH WORK

50.

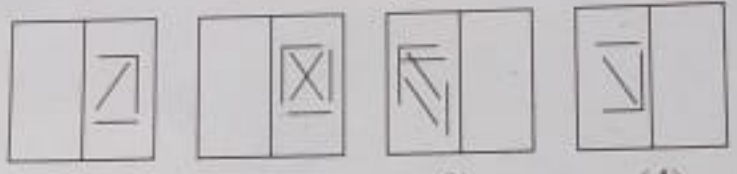


(1) 216 (2) 126 (3) 113 (4) 93.

Q. 51 and 52 : Direction In the figure given below, a transparent square shaped paper is folded along the dotted lines, which figure will be obtained ? Choose the correct figure from the given alternatives.

51. Question Figure

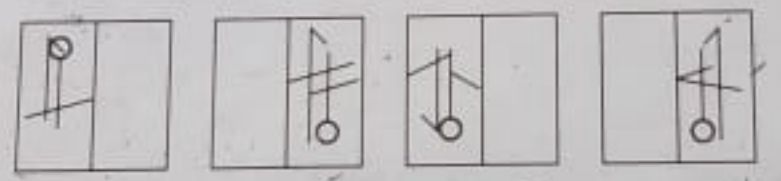
Answer Figure



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

52. Question Figure

Answer Figure



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

Q. 53 to 55 : Direction In each of the following questions there is a specific relationship between the first and the second term. The same relationship exists between the third and the fourth term. Find the relation and choose the correct answer to replace the question mark.

53. KMF : LLH :: RMS : ?

(1) SLR (2) SLU (3) SSU (4) SUS.

54. ADE : FGJ :: KNO : ?

(1) PQR (2) PQT (3) RQP (4) TPR.

55. ? : ALKLO :: WOULD : TLRIA

(1) BLOCK (2) BARGE (3) CONES (4) DONOR

SPACE FOR ROUGH WORK

ABCDE FGHIJ KLMNO PQRST UVWXY Z.

56. **Direction :** In the following question the numbers and letters in each horizontal line are related to each other by a specific rule. Identify the rule and choose the correct alternative to replace the question mark.

FJ	**25**	**16**	**NS**
LZ	**25**	**196**	**SX**
NQ	**?**	**?**	**WY**

(1) 4, 9 (2) 9, 4 (3) 18, 169 (4) 31, 256.

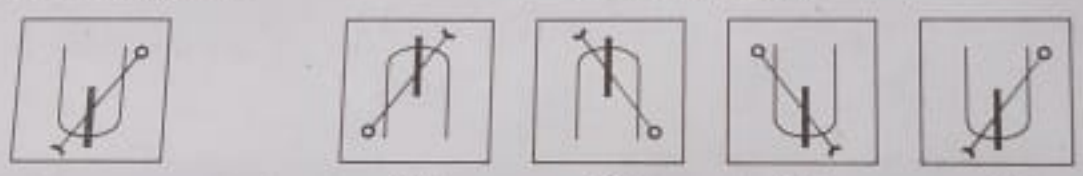
57. Choose the correct alternative to replace the question mark.

A	M	Q
C	U	E
G	E	?

(1) F (2) T (3) U (4) S.

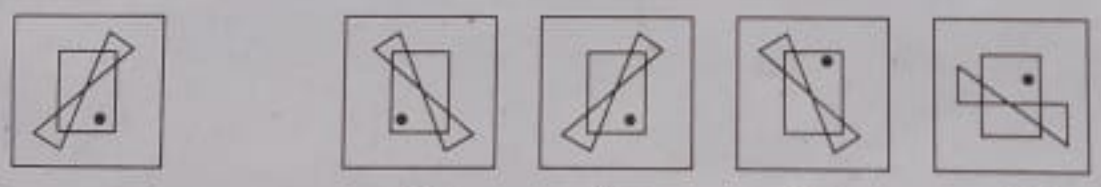
Q. 58 and 59 : Direction Choose the water image from the alternatives given for the question figure.

58. Question Figure Answer Figure



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

59. Question Figure Answer Figure



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

Q. 60 and 61 : Direction Pradyumna walked 12 km west. Then he turned right and walked 5 km. Again he turned right and walked 4 km. Finally he Again turned right and walked 11 km. Then

60. At the end, which direction Pradyumna is facing ?

(1) North (2) East (3) South (4) West.

61. At what distance is Pradyumna now from the original place ?

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

SPACE FOR ROUGH WORK

Q. 62 to 64 : Direction Observe the following pyramid of letters and decide which alternative will replace the question mark.

62. háb : mgf :: jied : ?

(1) kled (2) kdel (3) ldek (4) delk.

63. bza : bwy :: bsv : ?

(1) bnr (2) bvs (3) bhm (4) bag.

64. wsop : yvqp :: ptw : ?

(1) pqr (2) puy (3) pos (4) pxb.

Q. 65 to 67 : Direction A, B, C, D, E and F are sitting at each corner of a hexagonal table A and D are facing opposite direction. B is sitting to the left of D. D is sitting next to C and E is sitting to the other side of C.

65. Who is sitting opposite to F ?

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

66. If the persons sitting in opposite direction interchange their places, then who will be sitting in between D and F.

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

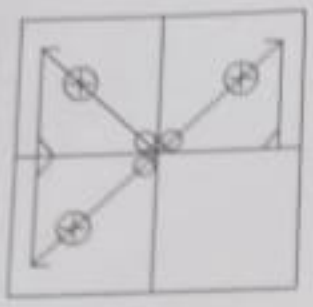
67. If only A and D interchange their places who will be in between B and C ?

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

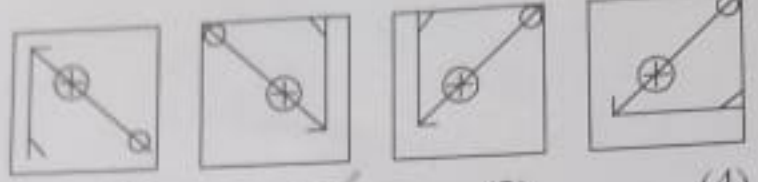
SPACE FOR ROUGH WORK

Q. 68 and 69 : Direction he following question figure is incomplete. Select the correct alternative that will complete the figure.

68. Question Figure

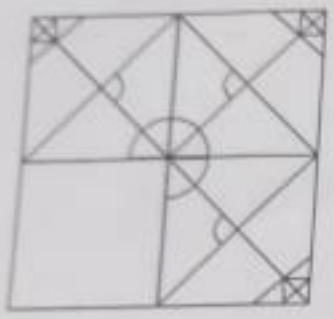


Answer Figure

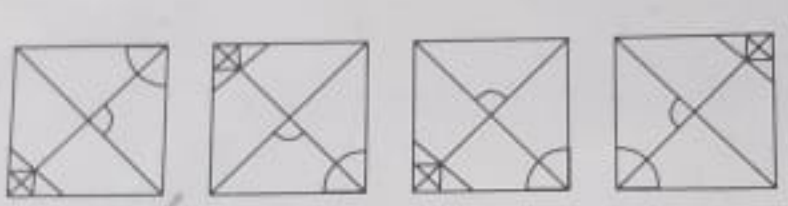


(1) (2) (3) (4)

69. Question Figure



Answer Figure



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

Q. 70 and 71 : Direction Ten years ago the ratio of ages of Sunil and Anil was 1 : 7. Ten years hence the ratio of their ages will be 1 : 2. Then

70. Find Sunil's present age.

(1) 14 years (2) 40 years (3) 70 years (4) 28 years.

71. What was Anil's age ten years before ?

(1) 4 years (2) 28years (3) 24 years (4) 32 years.

Q. 72 and 73 : Direction In a queue, Amruta is at the 11th place from front. Suneeta is at 26th place from behind. Sapna is at the central place between Amruta and Suneeta. If there are 60 persons in the queue, then

72. At which place Sapna is standing from the front ?

(1) 12 (2) 24 (3) 23 (4) 26

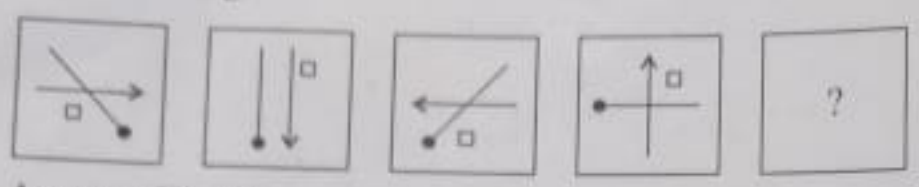
73. At which place Sapna is standing from behind ?

(1) 37 (2) 38 (3) 23 (4) 39

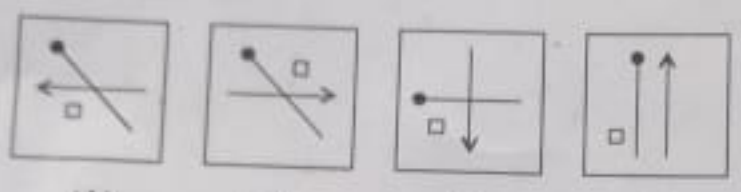
SPACE FOR ROUGH WORK

Q. 74 and 75 : Direction In each of the following questions the question figures are given in specific order. Select the correct alternative from the answer figures that will replace the question mark.

74. Question Figure



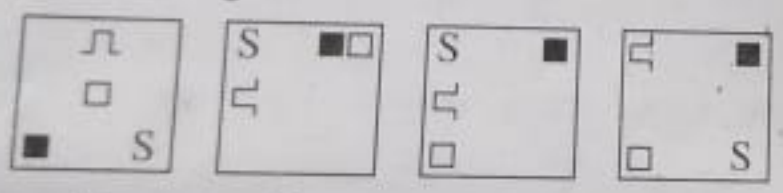
Answer Figure



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

75. Question Figure

Answer Figure



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

Q. 76 and 77 : Direction In the following question in every row the numbers outside the bracket and inside the bracket are related to each other in a specific manner. From the given alternative choose the correct alternative that will replace the question mark.

76. 17 (68) 28
11 (22) 14
49 (?) 9

(1) 56 (2) 105 (3) 147 (4) 63.

77. 24 (7) 67
53 (6) 25
82 (?) 35

(1) 11 (2) 10 (3) 9 (4) 8.

SPACE FOR ROUGH WORK

Q 78 to 80 : Direction In each of the following questions find out the group of letters that matches the given group.

78. AUEFG EOVWX IAPQR

(1) OQRST (2) UEJKL (3) OKEFG (4) UGHIJ.

79. ZXAVT WUESQ TRUPN

(1) VTRPN (2) JHFDB (3) LJOHF (4) QOMKL.

80. BYMN DWJZ GTKP

(1) AZFV (2) CXHS (3) HSOX (4) EVJP.

Q. 81 to 83 : Direction The word ACTIVE is written in four different code languages. Understanding the code find out the correct code language for the word given in each of the following questions :

ACTIVE = (1) CEVKXG
(2) EFVKYI
(3) XZQFSB
(4) CFXNBL

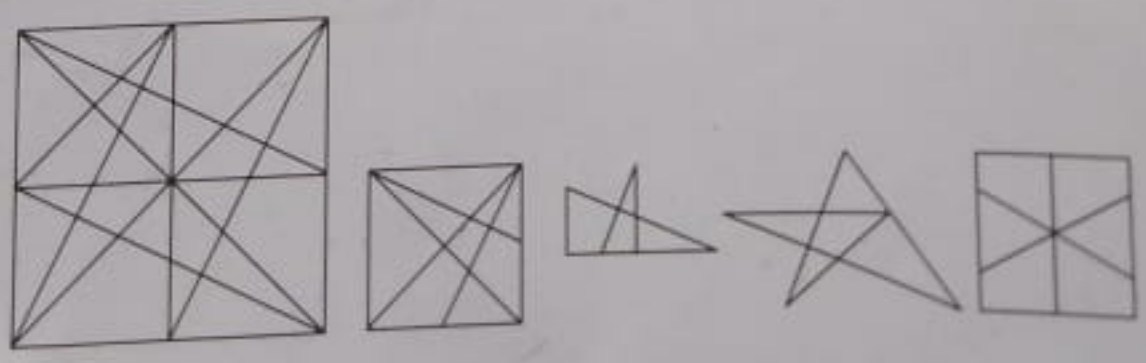
81. GOLDEN = KRNFHR.

82. ORANGE = LOXKDB

83. PURPLE = RWTRNG

Q. 84 nd 85 : Direction In the given question a complex figure is given. Find out which of the figure given in the alternatives is hidden in the complex figure.

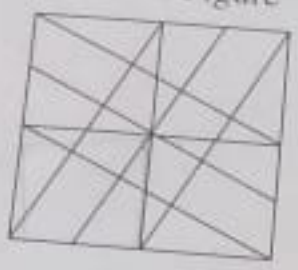
84. Question Figure Answer Figure



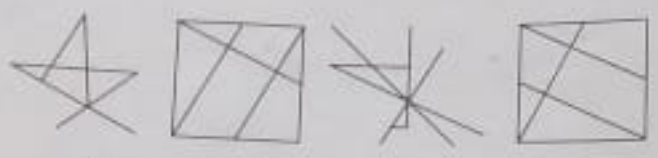
(1) (2) (3) (4)

SPACE FOR ROUGH WORK

85. Question Figure

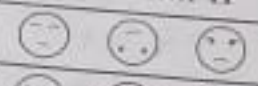
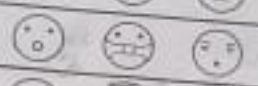
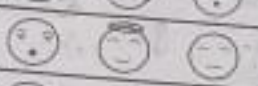
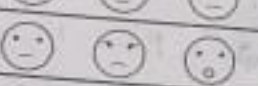
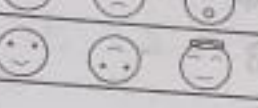


Answer Figure



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

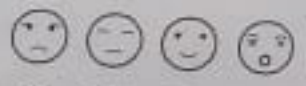
Q. 86 and 87 : Direction In the following questions numbers are given in Column I and are coded in column II. But they are not arranged according to the order of digits in the number. Identify the code language and choose the correct alternative to answer the questions :

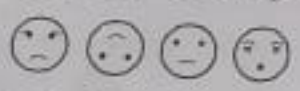
Column I	Column II
972	
463	
876	
931	
582	

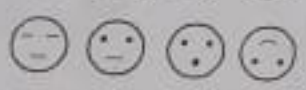
86. Which of the following numbers will be coded as  ?

(1) 2165 (2) 2856 (3) 2356 (4) 2534.

87. Which of the following code will be used to indicate the number 9135 ?

(1) 

(2) 

(3) 

(4) 

Q. 88 Direction : Observe the following code and answer the questions that follow :

Letters→	A	T	M	G	O	D	N	R	S
Digits →	9	8	7	6	5	4	3	2	1

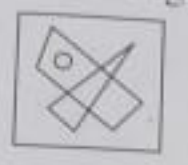
88. Choose the correct code from the following alternatives for the word 'DONAR'.

(1) 48391 (2) 54872 (3) 45392 (4) 53971.

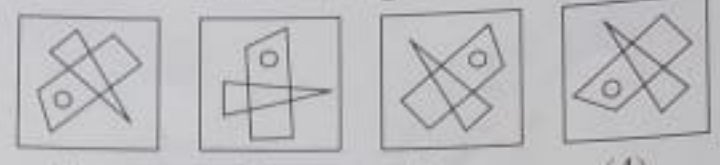
SPACE FOR ROUGH WORK 45392

Q. 89 to 90 : Direction Choose the correct mirror image from the alternatives given for the question figure.

89. Question Figure



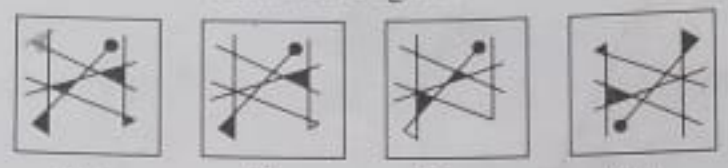
Answer Figure



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

90. Question Figure

Answer Figure



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

91. In a mathematical code language

$88 - 7 = 39$, $77 - 6 = 41$, $99 - 5 = 74$, then $55 - 4 = ?$

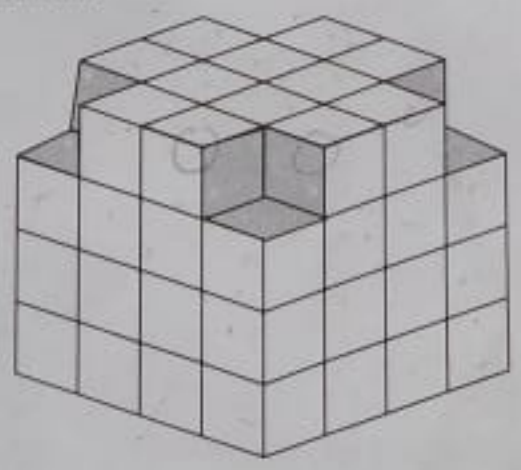
(1) 31 (2) 39 (3) 49 (4) 34

92. In a mathematical code language

$8 + 6 = 42$, $7 + 5 = 30$, $9 + 3 = 24$, then $6 + 4 = ?$

(1) 27 (2) 20 (3) 22 (4) 24.

Q. 93 to 95 : Direction The following figure is made by arranging some cubes having each side 1 unit. The figure is painted from all the outside surfaces Observe the figure and choose the correct alternative to answer the questions.



93. Maximum how many faces of a cube are painted ?

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

94. How many cubes have at least two faces coloured ?

(1) 12 (2) 20 (3) 28 (4) 48.

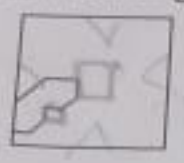
SPACE FOR ROUGH WORK

95. How many cubes have only one face painted ?

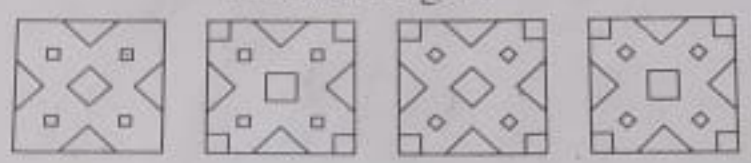
(1) 4 (2) 16 (3) 24 (4) 64

Q. 96 and 97 : Direction A square piece of paper is folded and cut at specific spots as shown in the figure. The paper when unfolded will look like as one of the alternative given. Choose the correct alternative.

96. Question Figure



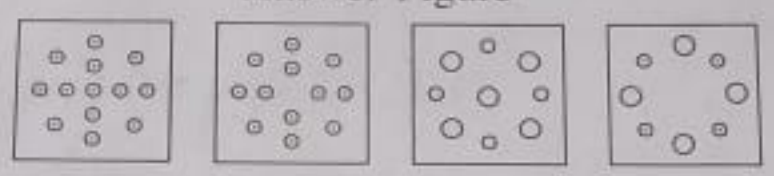
Answer Figure



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

97. Question Figure

Answer Figure



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

Q. 98 to 100 : Direction Observe the following pyramid and choose the correct alternative to answer the questions.

1
2 3
6 5 4
7 8 9 10
15 14 13 12 11
16 17 18 19 20 21
28 27 26 25 24 23 22
29 30 31 32 33 34 35 36
45 44 43 42 41 40 39 38 37

98. 1352 : 13192518 :: 59138 : ?

(1) 25334132 (2) 25324133 (3) 25413332 (4) 33253241.

99. 163044 : 213538 :: 173143 : ?

(1) 393420 (2) 203439 (3) 183241 (4) 203440.

100. 281627 : 222123 :: 292830 : ?

(1) 352236 (2) 353622 (3) 362235 (4) 363522.

SPACE FOR ROUGH WORK