CFY (9TH)

IQ PAPER – 1

Time: 1½ hrs   *Maximum Marks: 100*

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1. **SECTION 1 contains 100 questions of Mental ability.**

2. **Each question carries +3 mark and there is negative marking (– 1).**

Enrolment No. : ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

Name : . . . .

Date of Examination : . . . . CENTRE . . . .

*This Section contains 100 multiple choice questions numbered 1 to 100. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

1. In certain code, DEAF is written as 3587, and FILE is written as 7465. How is IDEAL written in that code?
    (A) 43568   (B) 43586
    (C) 63548   (D) 48536

2. If E = 5 and HOTEL = 12, how will you code LAMB?
    (A) 7   (B) 10   (C) 26   (D) 28

3. If, in a code, MIND becomes KGLB and ARGUE becomes YPESC, then what will DIAGRAM be in that code?
    (A) BGYEPYK   (B) BGYPYEK   (C) GLPEYKB   (D) LKBGYPK

Directions (Questions 4 – 6) : Read the following information to answer these questions.
In a certain code language, '481' means 'sky is blue' , '246' means 'sea is deep ' and '698' means 'sea looks blue'.

4. What number is the code for 'deep'?
    (A) 1   (B) 2   (C) 4   (D) 6

5. What number is the code for 'blue'?
    (A) 1   (B) 6   (C) 8   (D) 9

6. Which word is coded as '4'?
    (A) Sea   (B) Sky   (C) is   (D) deep

7. If 'x' stands for 'addition' '<' for 'subtraction' , '+' for division, '>' for multiplication, ' – ' for 'equal to', '÷' for 'greater than' and ' = ' for 'less than' then state which of the following is true?
    (A) $3 \times 4 > 2 - 9 + 3 < 3$ (B) $5 \times 3 < 7 \div 8 + 4 \times 1$
    (C) $5 > 2 + 2 = 10 < 4 \times 8$ (D) $3 \times 2 < 4 \div 16 > 2 + 4$

Space for rough work

8. The given equation becomes correct due to the interchange of two signs. Find the alternative which specifies that interchange
    $5 + 6 \div 3 - 12 \times 2 = 17$
    (A) ÷ and ×   (B) + and ×   (C) + and ÷   (D) + and −

9. If 'bangle' is called 'cassette' , 'cassette' is called 'table' , 'table' is called 'game' , and 'game' is called 'cupboard' , then which is played in the tape recorder?
    (A) Bangle   (B) Cassette   (C) Table   (D) Cupboard

10. If 'water' is called 'food' , 'food' is called 'tree' , 'tree' is called 'sky', 'sky' is called 'wall' , on which of the following does a fruit grow?
    (A) Water   (B) Food   (C) Tree   (D) Sky

11. I am facing south. I turn right and walk 20 m. Then I turn right and walk 10 m. Then I turn left and walk 10 m and then turning right walk 20 m. Then I turn right again and walk 60 m. In which direction am I from the starting point?
    (A) North   (B) North West   (C) East   (D) North East

12. A man is performing yoga with his head down and legs up. His face is towards the west. In which direction will his left hand be?
    (A) North   (B) South   (C) East   (D) West

13. A man is facing north-west. He turns $90°$ in the clockwise direction and then $135°$ in the anticlockwise direction. Which direction is he facing now?
    (A) East   (B) West   (C) North   (D) South

Directions (Questions 14 – 16) : In each of these letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

14. _ bcc _ ac_ aabb _ ab_ cc
    (A) aabca   (B) abaca   (C) bacab   (D) bcaca

15. m n o n o p q o p q r s_ _ _ _ _ _
    (A) m n o p q r   (B) o q r s t u
    (C) p q r s t u   (D) q r s t u v

16. a _ c a _ b c _ b c c _ b c a
   (A) bbaa   (B) bbab   (C) aabb   (D) baba

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Space for rough work

Directions (Questions 17 – 25) : In each of these questions, there is some relationship between the two terms (figures, objects, letter clusters or numbers) on the left of the signs (::). The same relationship exists between the two terms on the right of the sign (::) of which one is missing. Find the missing term from the four alternatives.

17.

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

18.

(A)   (B)   (C)   (D)
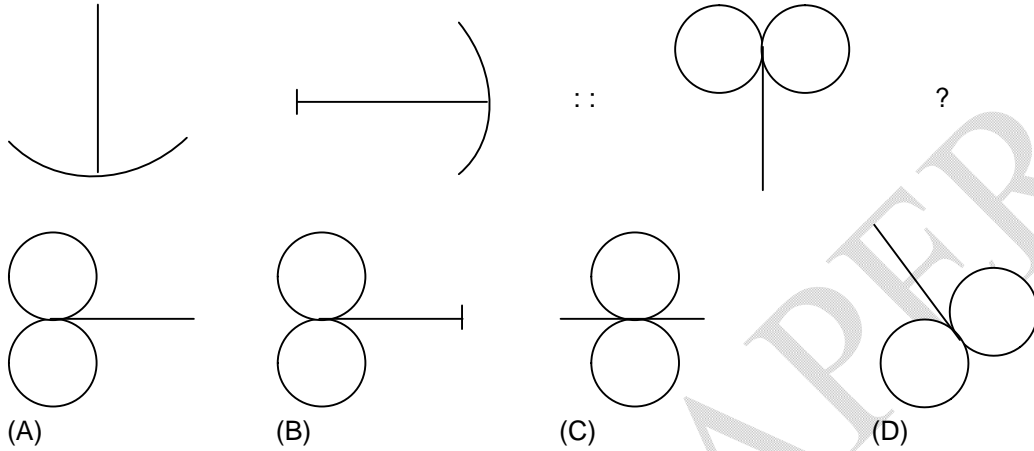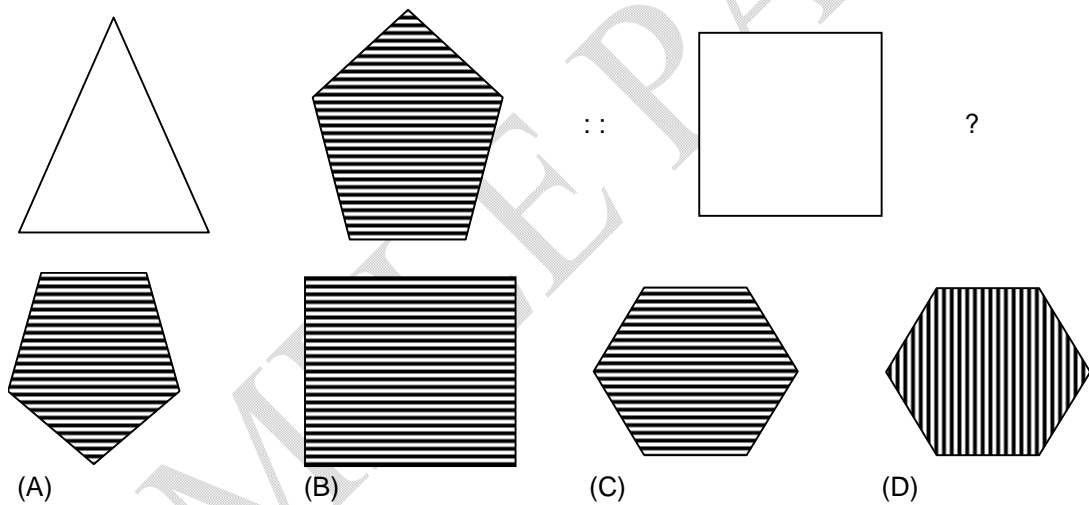
Space for rough work

19. 14 : 9 : : 26 : ?
    (A) 12 (B) 13 (C) 15 (D) 31

20. 6 : 18 : : 4 : ?
    (A) 2 (B) 6 (C) 8 (D) 16

21. 16 : 56 : : 32 : ?
    (A) 96 (B) 112 (C) 118 (D) 128

22. Oasis : Sand : : Island : ?
    (A) River (B) Sea (C) Water (D) Waves

23. Jungle : Zoo : : Sea : ?
    (A) Aquarium (B) Harbour (C) Water (D) Fishery

24. CLOSE : DNRWJ : : OPEN : ?
    (A) PRHR (B) PRJQ (C) RPJB (D) RZWR

25. B : 16 : : D : ?
    (A) 120 (B) 150 (C) 200 (D) 256

Directions (Questions 26 – 33) : In these questions, four items (figures, objects, letter clusters, numbers) are given. Three of them are alike in a certain way. Find the one which is different from the others.

26. (A) Wheat (B) Paddy (C) Jowar (D) Mustard

27. (A) Honest (B) Intelligent (C) Traitor (D) Wise

28. (A) 35 (B) 49 (C) 140 (D) 350

29. (A) 246 (B) 356 (C) 527 (D) 639

30. (A) BDI (B) HKA (C) LMO (D) PQS

Space for rough work

31.   (A) DG2   (B) PY8   (C) JR6   (D) RV3

32.

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

33.

      (A)   (B)   (C)   (D)
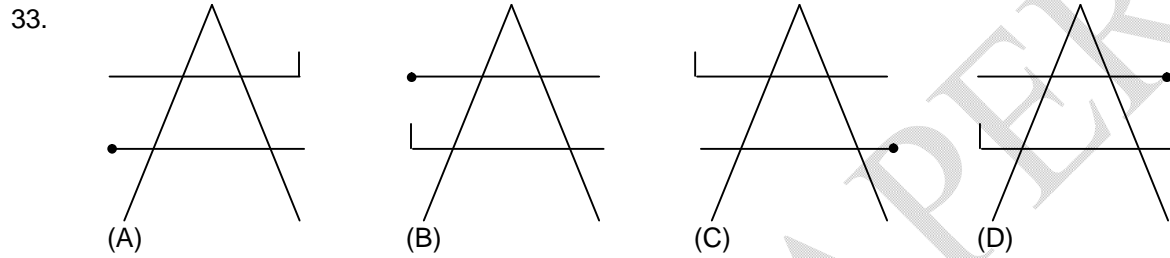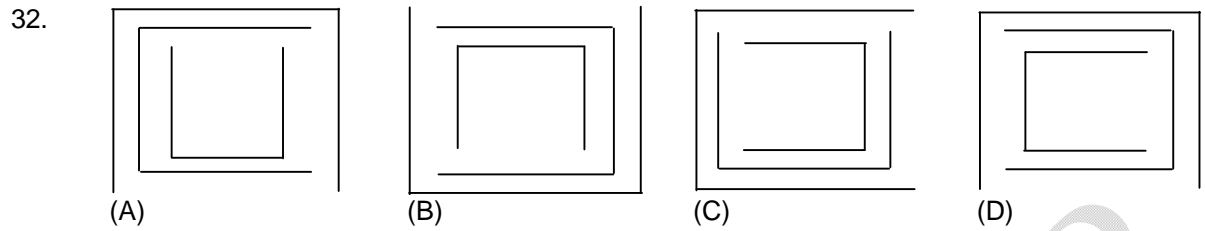
Directions (Questions 34 – 41) : In each of these questions a series is given. Find out the missing term of the series

34.   5, 2, 7, 9, 16, 25, ?
      (A) 41   (B) 45   (C) 48   (D) 52

35.   3, 15, ?, 63, 99, 143
      (A) 27   (B) 35   (C) 45   (D) 56

36.   3, 7, 23, 95, ?
      (A) 62   (B) 128   (C) 479   (D) 575

37.   PMT, OOS, NQR, MSQ, ?
      (A) LUP   (B) LVP   (C) LVR   (D) LWP

Space for rough work

38.   a, d, c, f, ?, h, g, ?, i
(A) e, j   (B) e, k   (C) f, j   (D) j, e

39.   A D V E N T U R E, D V E N T U R E, D V E N T U R, ? , V E N T U
(A) DVENT   (B) VENTURE   (C) VENTUR   (D) DVENTU

40.

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

41.

(A)   (B)   (C)   (D)
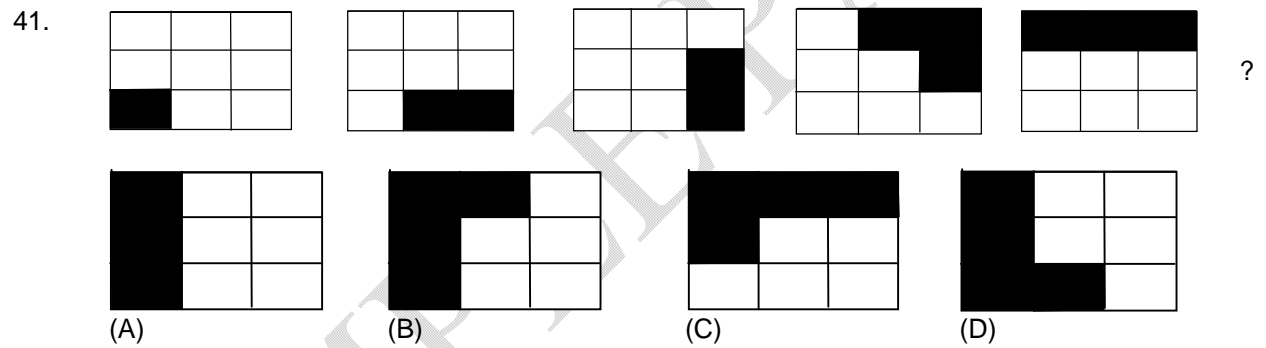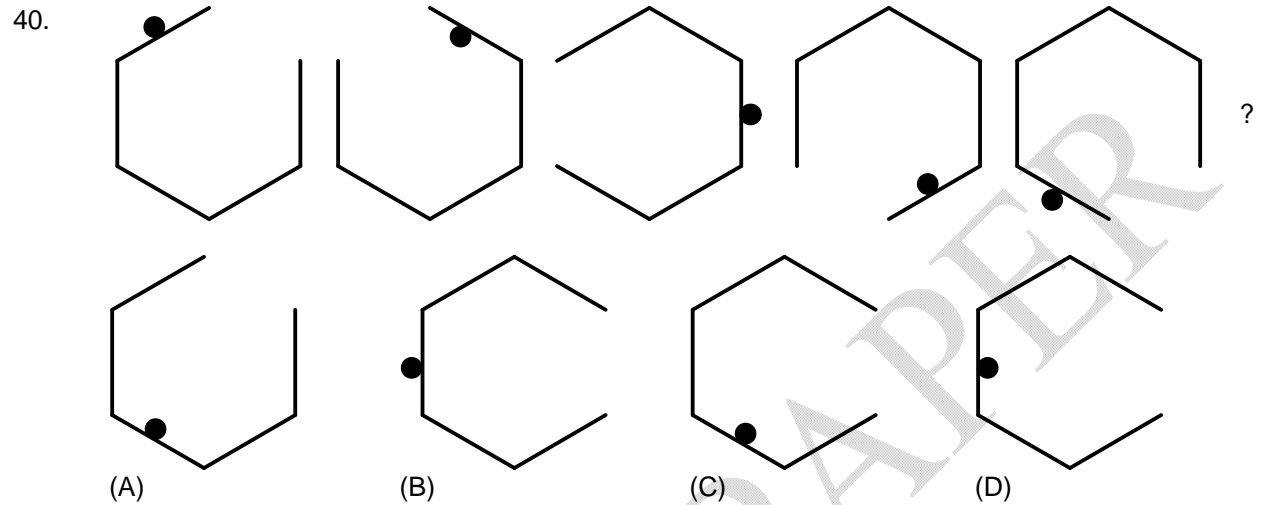
Space for rough work

Directions (Questions 42 – 45): Each of these questions consists of a question and two statements numbered I and II given below it. Read both the statements and give answer.

(A) If the data in statement I alone is sufficient to answer the question; while the data in statement

II alone is not sufficient to answer the question

(B) If the data in statement II alone is sufficient to answer the question; while the data in statement

I alone is not sufficient to answer the question

(C) If the data either in statement I alone or in statement II alone is sufficient to answer the question

(D) If the data in both statements I and II together are not sufficient to answer the question.

42. What is the code for 'sky' in the code language?
   I. In the code language, 'sky is clear' is written as 'de ra fa'.
   II. In the same code language, 'make it clear' is written as 'de ga jo'.

43. How is J related to P?
   I. M is brother of P and T is sister of P.
   II. P's mother is married to J's husband who has one son and two daughters.

44. Among A, B, C, D, E and F, who is the heaviest?
   I. A and D are heavier than B, E and F but none of them is the heaviest
   II. A is heavier than D but lighter than C.

45. How many visitors saw the exhibition yesterday?
   I. Each entry pass holder can take up to three persons with him/ her.
   II. In all 243 passes were sold yesterday.

Directions (Questions 46 – 49): In each of these questions there are two statements followed by two conclusions numbered I and II. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts and decide which of the two given conclusions logically follows from the two given statements. Give answer:

(A) if only conclusion I follows
(B) If only conclusion II follows
(C) if neither I nor II follows
(D) If both I and II follow.

46. Statements: 1. Some players are singers.
                   2. All singers are tall.
   Conclusions: I. Some players are tall
                   II. All players are tall.

Space for rough work

47. Statements : 1. Some hats are caps
                   2. Some caps are mats.
     Conclusions : I. Some caps are hats
                    II. Some mats are caps.

48. Statements : 1. Some vegetables are fruits
                   2. No fruit is black.
     Conclusions : I. Some fruits are vegetables
                    II. No vegetable is back.

49. Statements : 1. Some fools are intelligent.
                   2. Some intelligent are great.
     Conclusions : I. Some fools are great
                    II. All great are intelligent.

50. At what time between 5 PM to 5:30 PM are the hands of a clock at an angle of $30°$?

     (A) $5:21\dfrac{9}{11}$ pm   (B) $5:25$ pm   (C) $5:24\dfrac{9}{11}$ pm   (D) $5:29\dfrac{1}{11}$ pm

51. How many times do the two hands of a clock coincide in a day?
     (A) 11   (B) 12   (C) 22   (D) 44

52. Which year after 1957 has the same calendar as 1957?
     (A) 1961   (B) 1962   (C) 1963   (D) 1964

53. Which day of the week did India get her independence?
     (A) Wednesday (B) Friday   (C) Saturday   (D) Thursday

Directions (Questions 54 – 59): Insert the missing character.

54.
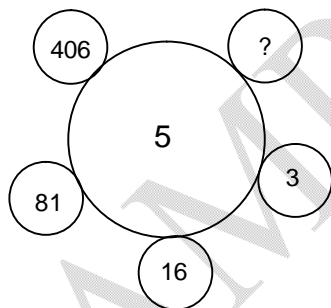
     (A) 1   (B) 731   (C) 1625   (D) 2031

Space for rough work

55.

12   18   30 → 6

16   32   40 → 8

36   18   27 → ?

(A) 6   (B) 9   (C) 12   (D) 18

56.

Circle 1: 5 | 4 ; 20 | 9

Circle 2: 3 | 8 ; 24 | 11

Circle 3: 9 | 4 ; ? | 13

(A) 26   (B) 32   (C) 36   (D) 117
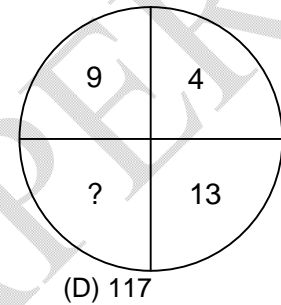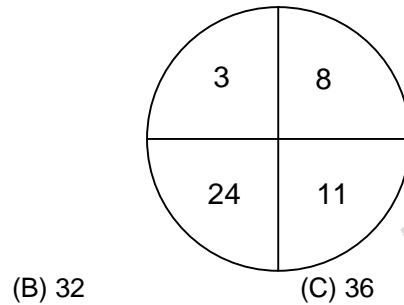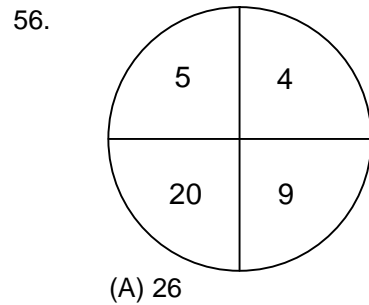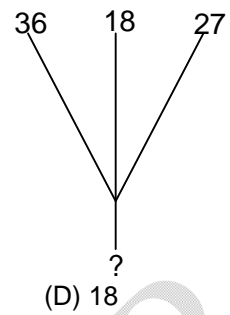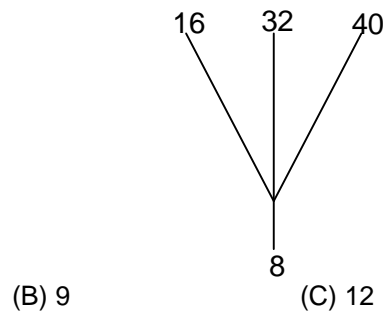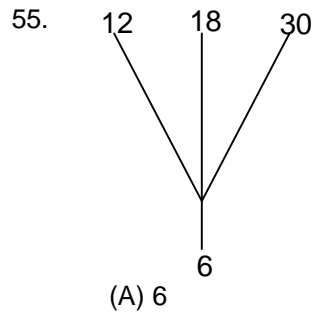
57.

24	144	384
6	36	?
2	12	32
1	6	16

(A) 80   (B) 85   (C) 91   (D) 96

58.

26	18	10
11	9	7
5	4	1
10	5	?

(A) 2   (B) 4   (C) 5   (D) 6

59.

B	G	N
D	J	R
G	N	?

(A) U   (B) V   (C) W   (D) X

Space for rough work

60. In a group of 15 people, 7 read French, 8 read English while 3 of them read none of these two. How many read both of these two?
(A) 0   (B) 3   (C) 4   (D) 5

61. Today is Varun's birthday. One year from today he will be twice as old as he was 12 years ago. How old is Varun today?
(A) 20 years   (B) 22 years   (C) 25 years   (D) 27 years

62. A student got twice as many sums wrong as he got right. If he attempted 48 sums in all, how many did he solve correctly?
(A) 12   (B) 16   (C) 18   (D) 24

63. Find the mirror-image of:
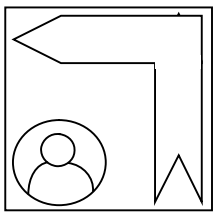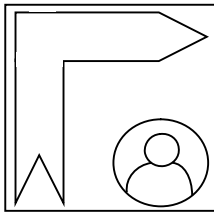
(A)   (B)   (C)   (D)
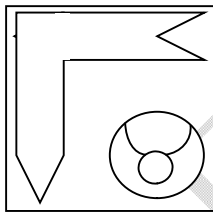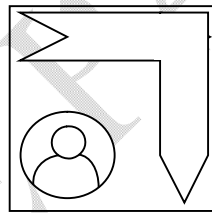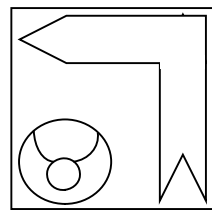
Space for rough work

Directions (Questions 64 – 65): Refer to the following diagram
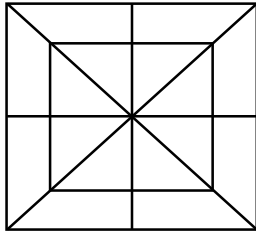
64.   How many triangle are there in the figure?
       (A) 28   (B) 29   (C) 30   (D) 32

65.   How many lines are there in the figure?
       (A) 10   (B) 12   (C) 16   (D) 24

Directions (Questions 66 -67): These questions are based on the following illustrations.
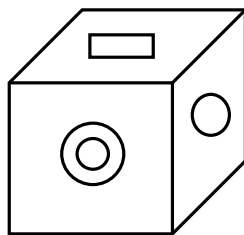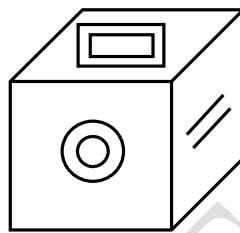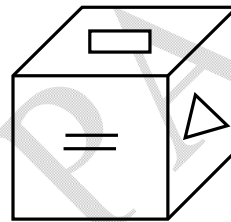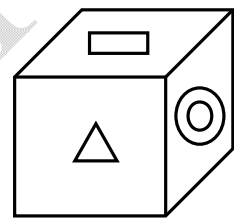
(i)   (ii)   (iii)   (iv)

66. The symbol at the bottom of (iv) is:

    (A) ◯   (B) ◎   (C) △   (D) ▭
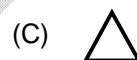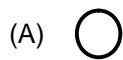
Space for rough work

67. The symbol opposite the face having the symbol ═══ is:

(A) ◯   (B) △   (C) ◎   (D) ▭
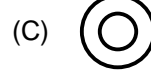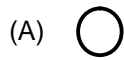
Directions (Questions 68 – 70): A cube is coloured red on all faces. It is cut into 64 smaller cubes of equal size.

68.   How many cubes have no face coloured?
(A) 24   (B) 16   (C) 8   (D) 0

69.   How many cubes have only one face coloured?
(A) 4   (B) 8   (C) 16   (D) 24

70.   How many cubes have three faces coloured?
(A) 24   (B) 16   (C) 8   (D) 4

71.   How many dots lie opposite the face having three dots, when the given figure
        is folded to form a cube?
        (A) 2   (B) 4
        (C) 5   (D) 6
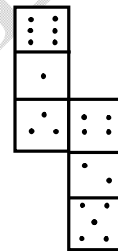
Directions (Questions 72 – 76) : These questions are based on the following information:
There are five persons P,Q, R, S and T. One is football player, one is chess player and one is a hockey player. P and S are unmarried ladies and do not participate in any game. None of the ladies play chess or football. There is a married couple in which T is the husband. Q is the brother of R and is neither a chess players nor a hockey player.

72.   Who is the football player?
(A) P   (B) Q   (C) R   (D) S

Space for rough work

73. Who is the hockey player?
(A) Q   (B) R   (C) S   (D) T

74. Who is the chess player?
(A) Q   (B) R   (C) S   (D) T

75. Who is the wife of T?
(A) P   (B) Q   (C) R   (D) S

76. The three ladies are:
(A) P, Q, R   (B) Q, R, S   (C) P, Q, S   (D) P, R, S

Directions (Questions 77 – 81): Read the information given below and answer the questions that follow.
     I. A, B, C, D, E and F are six members of a family
     II. One couple has parents and their children in the family
     III. A is the son of C and E is the daughter of A.
     IV. D is the daughter of F who is the mother of E.

77. Who are the male members of the family?
(A) A and C   (B) C and F
(C) A, B and D   (D) cannot be determined

78. Which of the following pairs are the parents of the children?
(A) BC   (B) CF   (C) BF   (D) AF

79. Which of the following pairs are the parents of the couple?
(A) AB   (B) BC   (C) AF   (D) FC

80. How many female members are there in the family?
(A) Two   (B) Three
(C) Four   (D) Cannot be determined

81. What relationship do D and E bear to each other?
(A) Sister and Brother   (B) Mother and Son
(C) Grand mother and grand daughter   (D) Sister

Space for rough work

Directions (Questions 82 – 84) : These questions are based on the diagram below:-
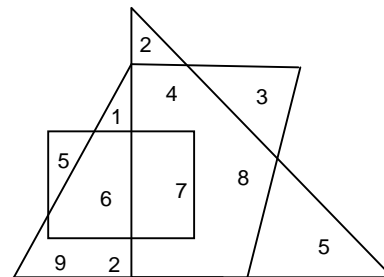
82. Which number is inside all the three figures?
     (A) 2   (B) 6   (C) 7   (D) 8

83. What is the sum of the numbers which belong to two figures only?
     (A) 10   (B) 14   (C) 18   (D) None of these

84. Multiply the number which belongs to the square only with the sum of the numbers which belong to the trapezium only. What is the result?
     (A) 45   (B) 60   (C) 75   (D) 85

Directions (Questions 85 -87): Choose the Venn Diagram which best illustrates the relationship between the three classes in each of these questions
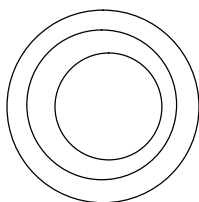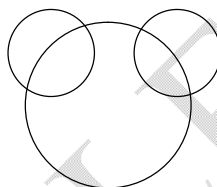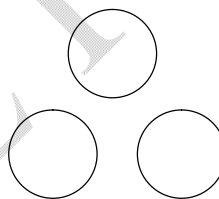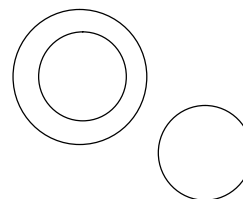
(A)   (B)   (C)   (D)

85. Sun, Planets, Earth

86. Rhombus, Quadrilaterals, Polygons

Space for rough work

87. Dogs, Cats, pets

88. Which figure can be formed from the pieces given in figure X?
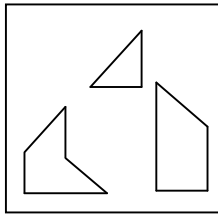
(X)
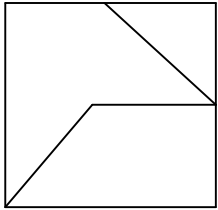
(A)
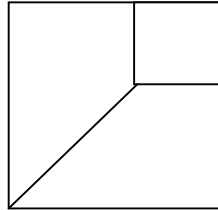
(B)
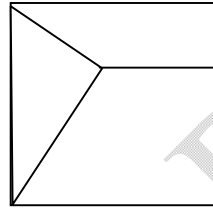
(C)
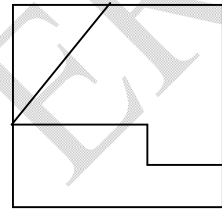
(D)

89. How will the key figure look after rotation?

(X)

(A)

(B)

(C)

(D)
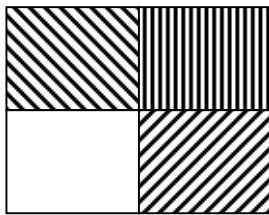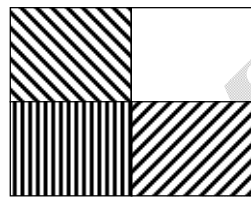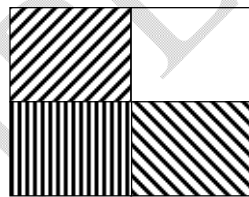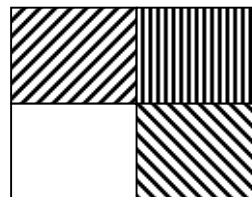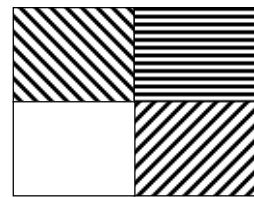
Space for rough work

90. Spot the embedded figure:-

(X)
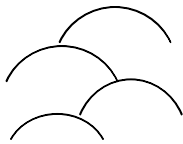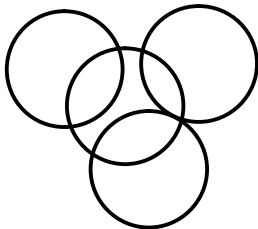
(A)   (B)   (C)   (D)
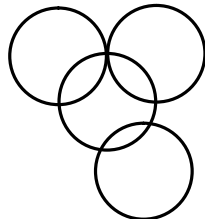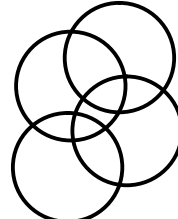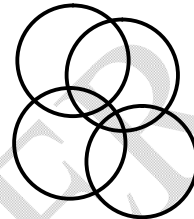
Directions (Questions 91 – 92): Find the figure which satisfies the same condition of placement of the dot as in fig(X):
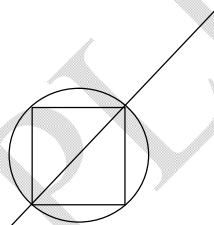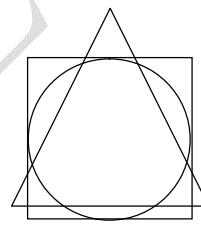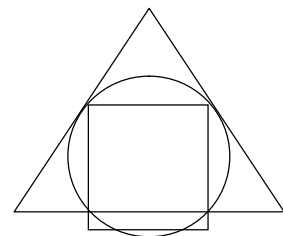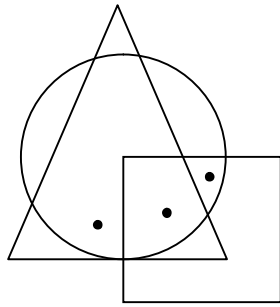
91.

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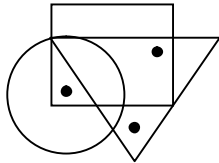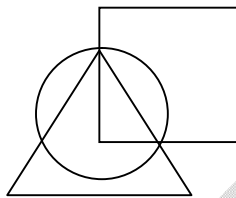
(A)   (B)   (C)   (D)

Space for rough work

92.

(X)
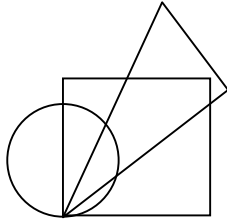
(A)   (B)   (C)   (D)
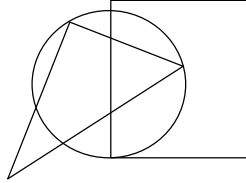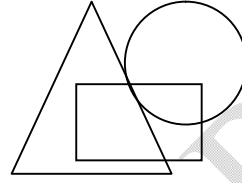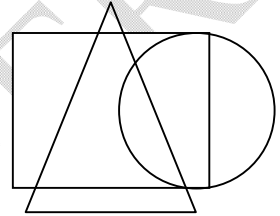
Directions (Questions 93 – 94) : Find the water image.

93.

DISC

(A) **CSID**   (B) **DISC** (water image)

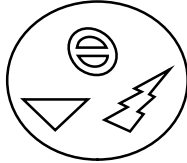(C) **DISC** (water image)   (D) **SCID** (water image)
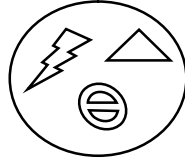
94. Vertical inversion.
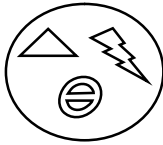
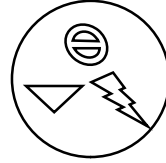
(X)

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

95. In a row of boys, Rajan is tenth from the right and Suraj is tenth from the left. When Rajan and Suraj interchange positions, Suraj will be twenty –seventh from the left. What will be Rajan's positions from the right?
(A) Twenty sixth   (B) Twenty seventh
(C) Twenty eight   (D) Twenty Ninth

96. Praveen ranks 15th from the top of a class of 60 boys, What is his position from the bottom?
(A) 45   (B) 46   (C) 47   (D) 48

Directions (Questions 97 – 98): These questions are based on the letters of the word:
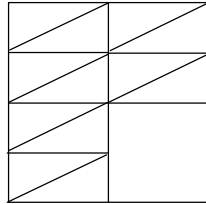**"DISOBEDIENCE"**

97. How many sets of two letters are as much apart form each other as they are in the alphabetical order?
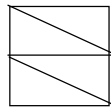(A) 1   (B) 2   (C) 3   (D) 4

Space for rough work

98. If a meaningful word can be formed with the 2nd, 6th, 10th, 11th and 12th letters of the word, which would be the fourth letter of that word?

(A) I   (B) E   (C) N   (D) C

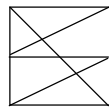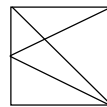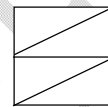**Directions (Questions 99 – 100):** Complete the pattern
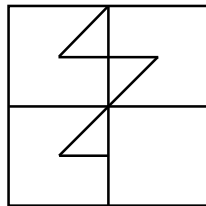
99.

(X)

(A)   (B)   (C)   (D)
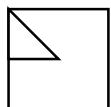
100.

(X)

(A)   (B)   (C)   (D)
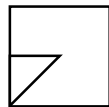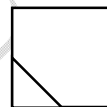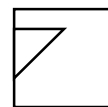
Space for rough work

IQ PAPER – 1

ANSWER KEY

1.	B	2.	A	3.	A	4.	B
5.	C	6.	C	7.	C	8.	A
9.	C	10.	D	11.	D	12.	A
13.	B	14.	C	15.	C	16.	A
17.	B	18.	C	19.	C	20.	C
21.	B	22.	C	23.	A	24.	A
25.	D	26.	D	27.	C	28.	B
29.	B	30.	D	31.	C	32.	D
33.	B	34.	A	35.	B	36.	C
37.	A	38.	A	39.	C	40.	D
41.	B	42.	D	43.	B	44.	A
45.	D	46.	A	47.	D	48.	A
49.	C	50.	A	51.	C	52.	C
53.	B	54.	D	55.	B	56.	C
57.	D	58.	A	59.	C	60.	B
61.	C	62.	B	63.	A	64.	D
65.	B	66.	D	67.	A	68.	C
69.	D	70.	C	71.	D	72.	B
73.	B	74.	D	75.	C	76.	D
77.	D	78.	D	79.	B	80.	C
81.	D	82.	C	83.	C	84.	C
85.	D	86.	A	87.	B	88.	A
89.	B	90.	C	91.	C	92.	B
93.	C	94.	A	95.	B	96.	B
97.	C	98.	D	99.	D	100.	B