

International Olympiad Foundation (IOF)
(IOLYMPIADS LLP)

Certifying Talents Across World



Question Paper &
Answer Sheet

CLASS-10

 **IFRAO**
International Foundation
Reasoning & Aptitude
Olympiad

International Foundation
Reasoning & Aptitude Olympiad(IFRAO)
CLASS-10
QUESTION PAPER - 2021

SECTION-A
Verbal Reasoning

1. In the following series determine the order of the letters. Then from the given options select the one which will complete the given series.
GH, JL, NQ, SW, YD, ?
A. EJ
B. FJ
C. EL
D. FL

2. In the following 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.
ab_ _ baa _ _ ab _ _
A. aaaaa
B. aabaa
C. aabab
D. baabb

3. In the series given below, what would come in place of the question-mark?
D2, I3, N6, S18, ?
A. V72
B. W36
C. Y90
D. X108

4. Which of the following does not fit in the letter number series given below?
G4T, J10R, M20P, P43N, S90L
A. J10R
B. S90L
C. M20P
D. G4T

5. In a certain code ABCD is written as 2468 and EFGH as 1357. How will CAGE be written in that code?
A. 6453
B. 6251
C. 6521
D. 6215

17. Directions: In the following questions, two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship.

Read both the statements in each question and mark your answer

Statements:

- I. The prices of petrol and diesel in the domestic market have remained unchanged for the past few months.
II. The crude oil prices in the international market have gone up substantially in the last few months.

- A. If statement I is the cause and statement II is its effect;
B. If statement II is the cause and statement I is its effect;
C. If both the statements I and II are independent causes;
D. If both the statements I and II are effects of independent causes

18. Directions: In the following questions, two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship.

Read both the statements in each question and mark your answer

Statements:

- I. India has surpassed the value of tea exports this year over all the earlier years due to an increase in demand for quality tea in the European market.
II. There is an increase in demand of coffee in the domestic market during the last two years.

- A. If statement I is the cause and statement II is its effect;
B. If statement II is the cause and statement I is its effect;
C. If both the statements I and II are independent causes;
D. If both the statements I and II are effects of independent causes

19. FACE is coded as GBDF, then BADE will be coded as

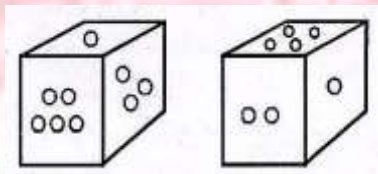
- A. CBFE
B. CEBF
C. CFBE
D. CBEF

20. If P \$ Q means P is the brother of Q; P # Q means P is the mother of Q ; P * Q means P is the daughter of Q. In A # B \$ C * D, who is the father?
- A. D
B. B
C. C
D. Data is inadequate

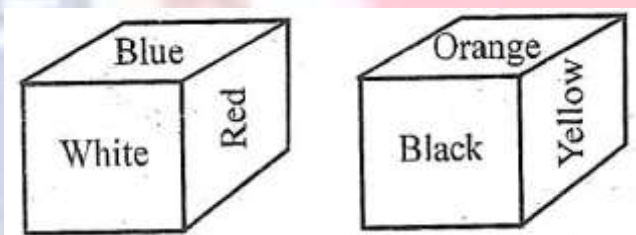
SECTION-B

Non Verbal Reasoning

21. Two positions of a dice are shown below. When there are two circles at the bottom, the number of circles at the top will be:



- A. 5
B. 2
C. 3
D. 6
22. Six sides of a cube are coloured in the following manner.



If blue and orange are opposite and red is on the top, which colour will be at the bottom?

- A. Orange
B. Purple
C. Black
D. Yellow

23. Direction: The following question consists of problem figures followed by answer figures. Select a figure from amongst the answer figures which will continue the same series or pattern as established by the problem figures.

Problem Figures



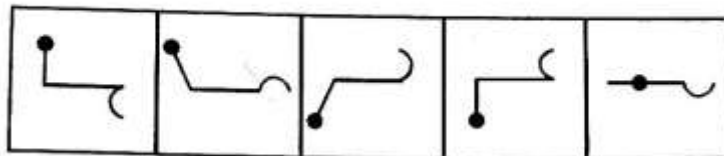
Answer Figures



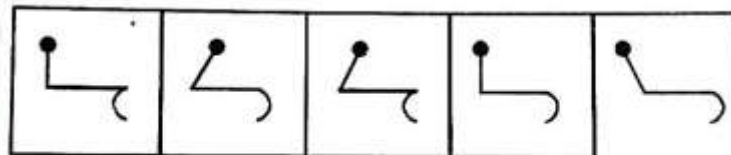
A B C D E

24. Direction: The following question consists of problem figures followed by answer figures. Select a figure from amongst the answer figures which will continue the same series or pattern as established by the problem figures.

Problem Figures



Answer Figures



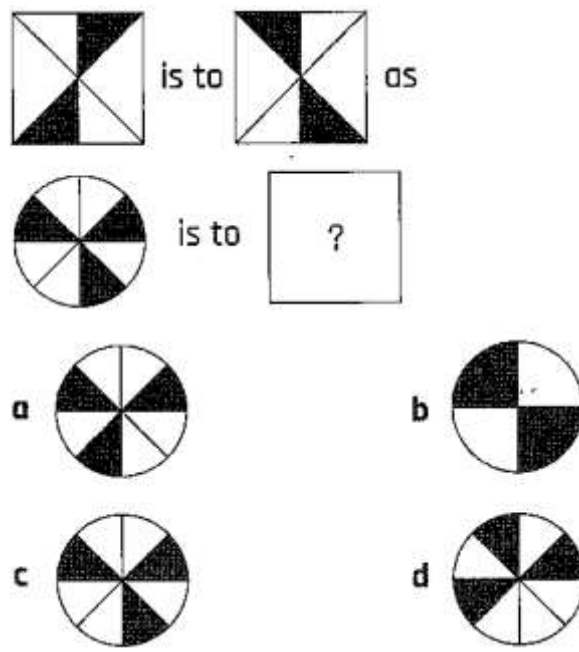
A B C D E

25. In each of the following question one of the figures is different from the rest. Spot the figure.

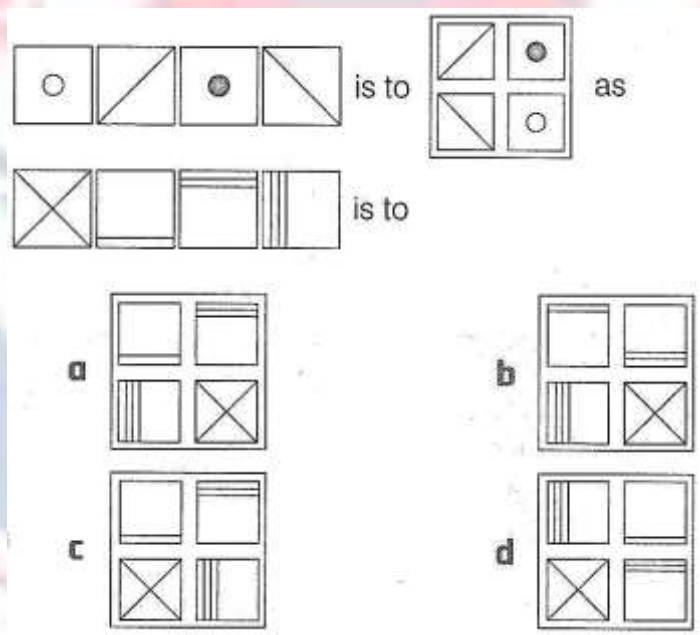


A B C D E

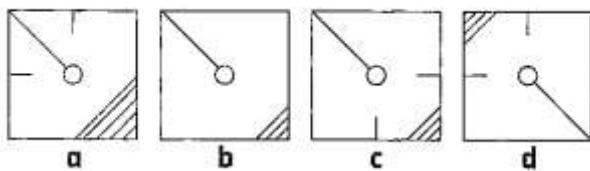
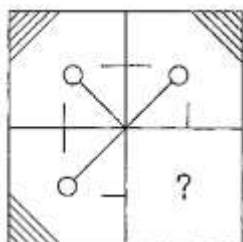
26. Which option figure completes the second pair in the same way as the first pair?



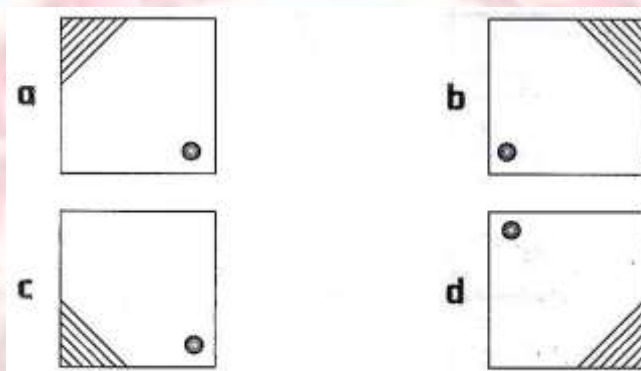
27. Which option figure completes the second pair in the same way as the first pair?



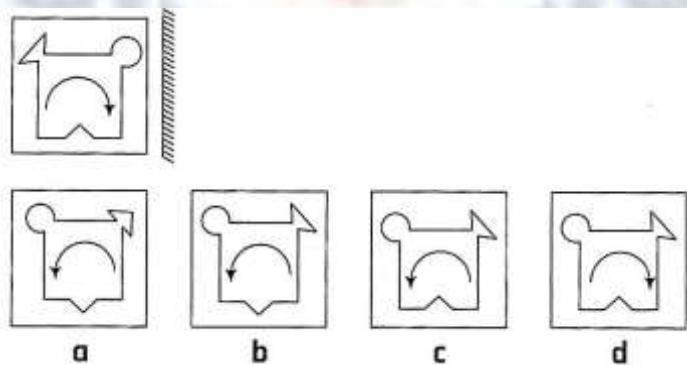
28. Which shape or pattern completes the large square?



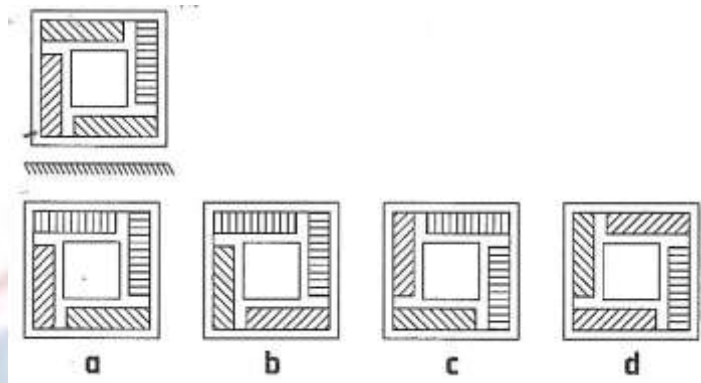
29. Choose the figure which is different from others.



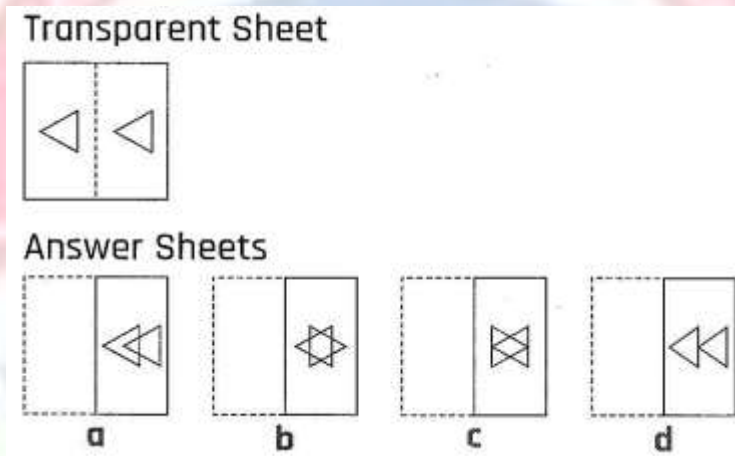
30. In each of the following questions, choose the correct mirror image from among the four given alternatives.



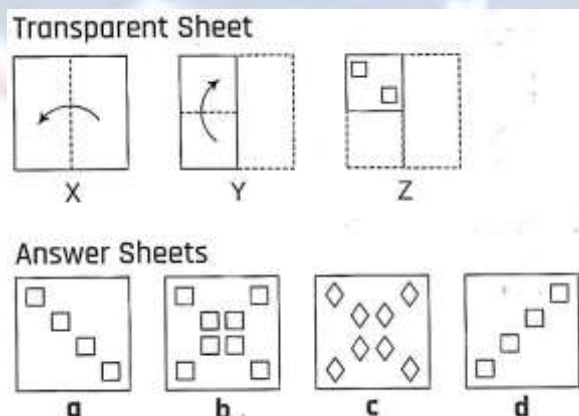
31. In the question, choose the correct mirror image of the given figure, if mirror is placed below the figure.



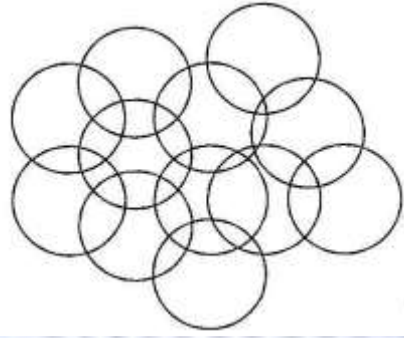
32. In the question, a transparent sheet with a certain design and a dotted line is given. From amongst the four answer figures, choose the one which resembles the transparent sheet after folding it along the dotted line.



33. Each of the question consists of a set of three transparent sheets (X), (Y) and (Z) showing a sequence of folding a piece of paper. Sheet (Z) depicts the manner in which the folded paper has been cut. From amongst the four answer sheets A, B, C and D, choose the one showing the unfolded form of sheet (Z).

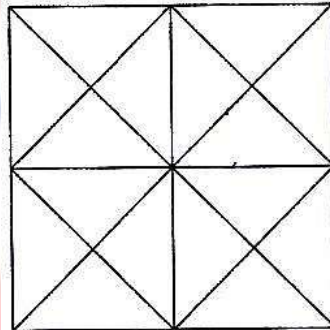


37. How many circles are there in the figure given below?



- A. 12
 B. 14
 C. 10
 D. None of these

38. Find the number of squares and triangles in the figure given below.

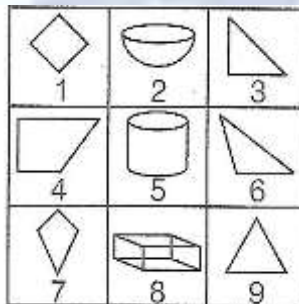


- A. 36 triangles, 10 squares
 B. 27 triangles, 6 squares
 C. 44 triangles, 5 squares
 D. 44 triangles, 10 squares

39. If the alphabet series is reversed then which of the following will be the third to the left of the sixth letter to the right of the third from the left of the series?

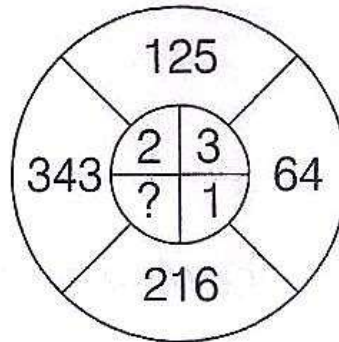
- A. X B. U C. R D. I

40. In each of the following question, group figures into three classes using each figure only once.



- A. 1, 4, 7 ; 2, 5, 8 ; 3, 6, 9
 B. 1, 4, 7 ; 2, 5, 9 ; 3, 6, 7
 C. 1, 3, 4 ; 2, 5, 8 ; 6, 7, 9
 D. 1, 2, 3 ; 4, 5, 6 ; 7, 8, 9

46. Identify the pattern in the given figure and determine which number replaces the question mark.



- A. 5
B. 4
C. 6
D. 3
47. **Directions: Read the information carefully to answer the questions that follow.**

Six friends are sitting in a circle and are facing the centre of the circle. Deepa is between Prakash and Pankaj, Preeti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other, Lalit is to the left of Preeti.

Who is sitting right to Prakash?

- A. Mukesh
B. Deepa
C. Pankaj
D. Lalit
48. **Directions: Read the information carefully to answer the questions that follow.**

Six friends are sitting in a circle and are facing the centre of the circle. Deepa is between Prakash and Pankaj, Preeti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other, Lalit is to the left of Preeti.

Who is just right to Pankaj ?

- A. Deepa
B. Lalit
C. Prakash
D. Preeti

Directions (Q.Nos-49 – 50) Study the line graph carefully and answer the questions that follow.



International Olympiad Foundation

Certifying Talents Across World

IFRAO

International Foundation Reasoning
& Aptitude Olympiad

ANSWER SHEET

Question No.	Answer	Question no.	Answer
1.	D	26.	A
2.	B	27.	A
3.	D	28.	A
4.	A	29.	C
5.	B	30.	C
6.	D	31.	D
7.	B	32.	C
8.	D	33.	B
9.	C	34.	C
10.	B	35.	A
11.	D	36.	C
12.	B	37.	A
13.	C	38.	D
14.	A	39.	B
15.	B	40.	A
16.	A	41.	A
17.	D	42.	C
18.	C	43.	D
19.	D	44.	C
20.	A	45.	B
21.	A	46.	D
22.	D	47.	D
23.	B	48.	A
24.	A	49.	C
25.	A	50.	B