

International Olympiad Foundation (IOF)
(IOLYMPIADS LLP)

Certifying Talents Across World



Question Paper &
Answer Sheet

CLASS-11

 **IFRAO**
International Foundation
Reasoning & Aptitude
Olympiad

II. No, because India did not condemn Russian occupation of Afghanistan.

Mark:

- A. if only argument I is forceful
- B. if only argument II is forceful
- C. if both the arguments I and II are forceful
- D. if neither argument I nor II is forceful

5. Directions: In the following questions, two statements are given which bear a cause and effect relationship. The four options A., B., C. and D. exhibit this nature of relationship make the answer as(choose the correct option)

Statement I: With the creation of the Supreme Court of Calcutta in 1773 many Hindus of Bengal showed eagerness to learn the English language.

Statement II: In Bengal, Babu Buddinath Mukherjee advanced the introduction of English as a medium of instruction by enlisting the support of Sir Edward Hyde East, Chief Justice of the Supreme Court.

- 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 statements I and II are independent causes.
- D. if both statements I and II are independent effects

6. In a code 'ROAR' is written as 'URDU' . How would 'URDU' be written in the code?

- A. VXDQ
- B. XUGX
- C. ROAR
- D. VSOV

7. If a watch shows 1:50 pm then what will be the time in its water image?

- A. 1:50
- B. 4:30
- C. 4:40
- D. 4:10

8. Direction: The Question given below has a problem and two statements numbered. I and II giving certain information. You have to decide if the information given in the statements is sufficient for answering the problem. (Indicate your answer from the options given)

Who is the heaviest amongst W, X, Y, Z ?

I. W and Z are the least heaviest

D. C is the sister-in-law of A

14. Find the choice that would replace the question mark in the question.

LO, IL, FI, CF, ___?___

A. ZB

B. AB

C. ZC

D. ZO

15. Find the choice that would replace the question mark in the question.

ATL, BUM, CVN, DWO, ___?___

A. EZP

B. EYQ

C. EFP

D. EXP

16. In the question, certain code values are assigned to a word and you have to find out the code which will be used for the given word, from the given option.

In a certain code, PAINTER is written NCGPRGP, then REASON would be written as

A. PCYQMN

B. PGYOMN

C. PGYUMP

D. PGYUPM

17. In a certain code, 2468 is coded as PART, 8136 as TOUR, how is 246618 coded?

A. PORRAT

B. TARROP

C. PARROT

D. RAPORT

18. The question has a main statement followed by four statements labelled P, Q, R and S. Choose the ordered pair of statements where the first statement implies the second and the two are logically consistent with the main statement.

If I drink something cold, I will fall ill.

P- I drank something cold.

Q- I have not fallen ill.

R- I did not drink something cold.

S- I have fallen ill.

A. RQ

B. RP

C. RS

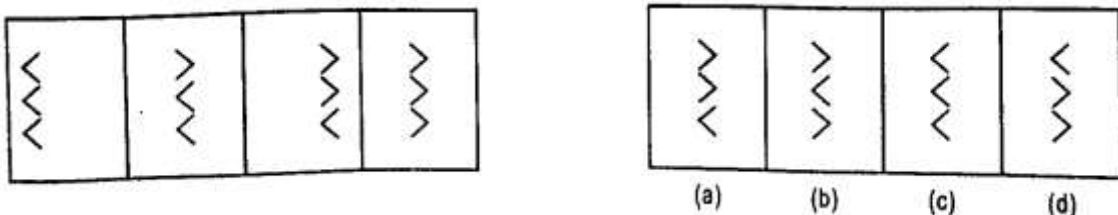
D. PS

19. May 25 being a Monday is Arun's birthday with his sister's birthday occurring on July 13. On which day of the week does his sister's birthday occur
- A. Monday
 B. Thursday
 C. Wednesday
 D. Friday

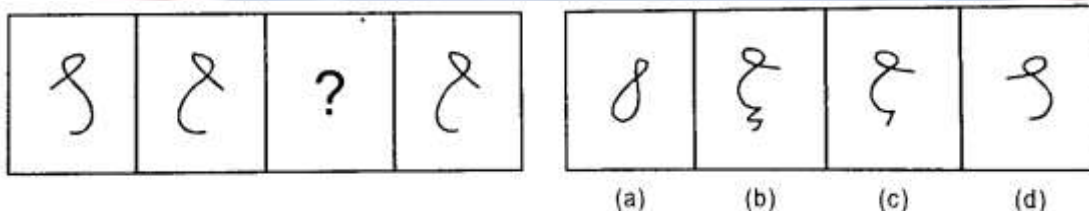
- In a certain code language, '123' means 'hot filter coffee', '356' means 'very hot day' and '589' means 'day and night'. Which digit in that language means 'very'?
- A. 8
 B. 6
 C. 9
 D. 5

SECTION-B NON VERBAL REASONING

21. Select one figure from the answer-set figures after deciphering the pattern of the problem series.

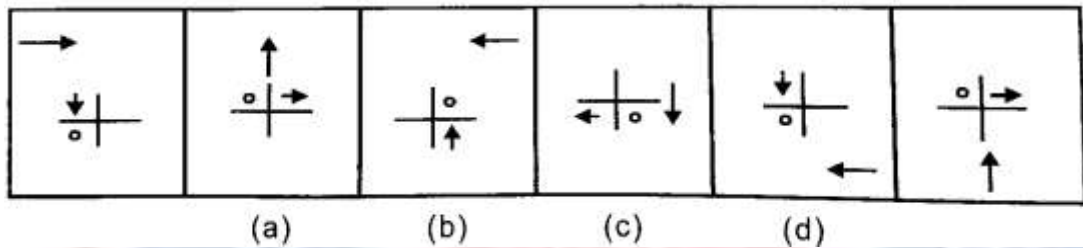


- A. (a)
 B. (b)
 C. (c)
 D. (d)
22. Find out which one of the answer figures should be in place of the question mark.



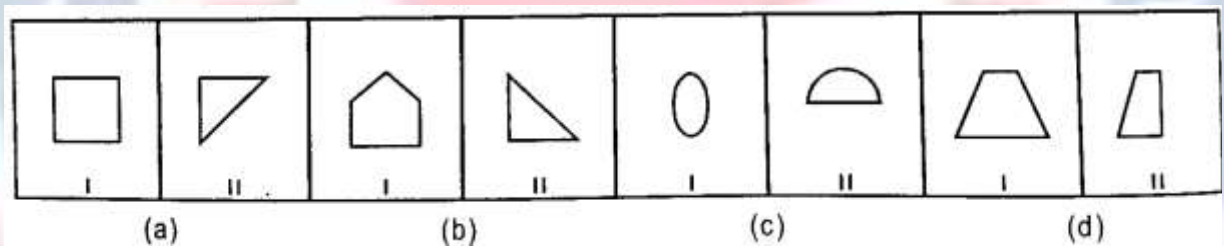
- A. (a)
 B. (b)
 C. (c)
 D. (d)

23. A series begins with the unnumbered figure on the extreme left. One and only one of the four numbered figures (a to d) in the series does not fit into the series. The two unnumbered figures, on the extreme left and the extreme right, fit into the series. You have to take as many aspects into account as possible of the figures in the series and find out the figure which does not fit into the series. The number of the figure is the answer.



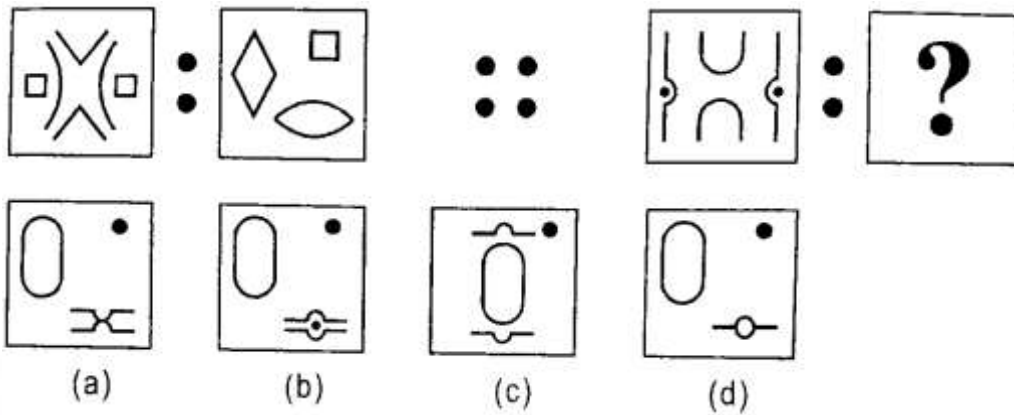
- A. (a)
 B. (b)
 C. (c)
 D. (d)

24. In question, three out of four figures, element I is related to element II in a particular way. Find out the figure in which the element I is not so related to element II.



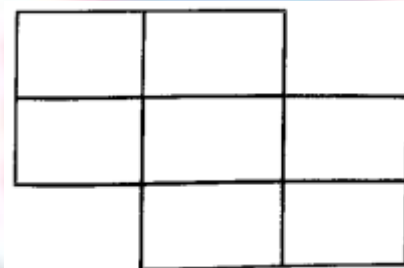
- A. (a)
 B. (b)
 C. (c)
 D. (d)

25. In the following question there are two sets of figures. The set on the top is Problem figures and the set given under it is Answer figures. The Problem figures are presented in two units. The first unit contains two figures which are related to each other by a certain logic and the second unit contains one figure and a question mark. You have to find out which of the Answer figures should replace the question mark.



- A. (a)
B. (b)
C. (c)
D. (d)

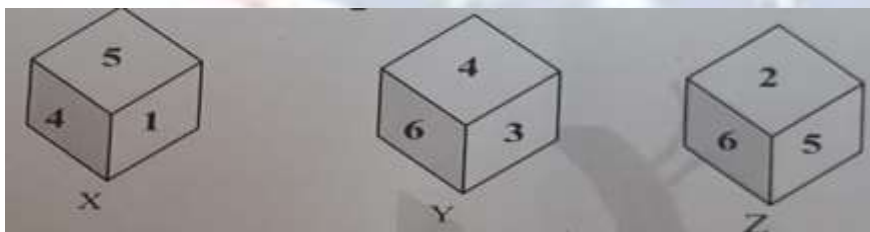
26. How many rectangles are there in the following figure?



- A. 15
B. 17
C. 19
D. 20

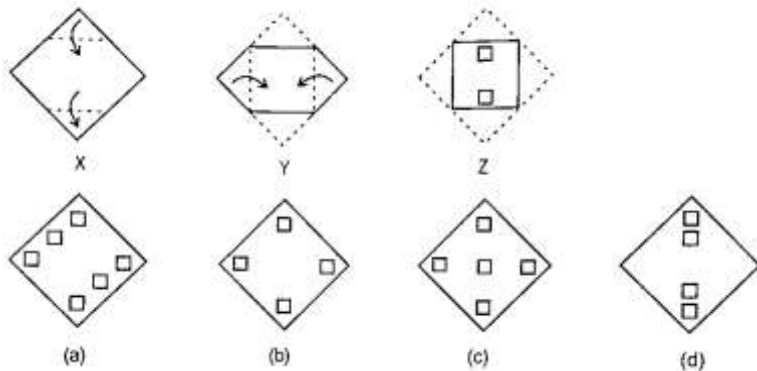
27. Three different positions X, Y, Z of a dice are shown in the figures given below. Answer the question based on these figures:

Which number lies at the bottom face in position X?



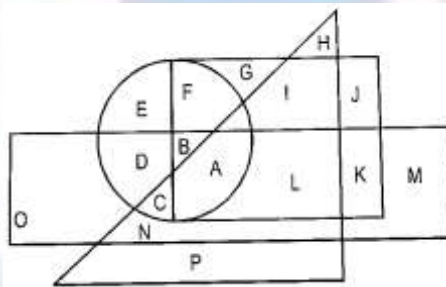
- A. 2
B. 3
C. 6
D. Cannot be determined

28. Consider the following three figures, marked X, Y, Z showing one fold in X another in Y and cut in Z. From amongst answer figures A., B., C. and D.. Select the one showing the unfolded position of Z.



- A. (a)
- B. (b)
- C. (c)
- D. (d)

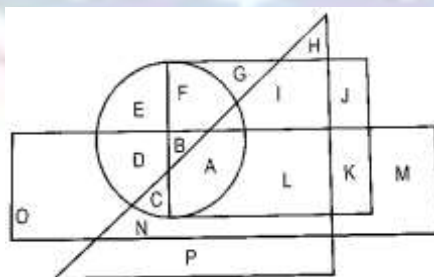
29. Answer the question based on the following diagrams.



In the diagram, which one of the following letters is inside the square and the triangle but outside the rectangle and the circle?

- A. G
- B. I
- C. L
- D. A

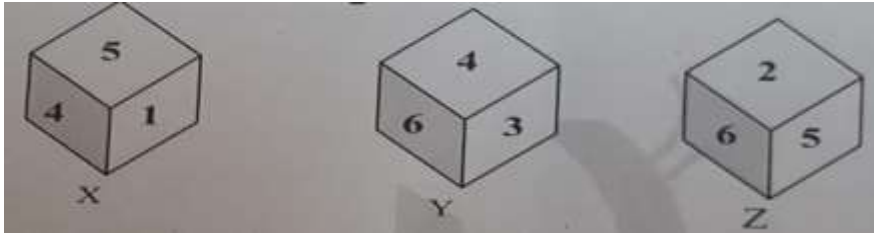
30. Answer the questions based on the following diagram. In the diagram, which one of the following letters is outside the square and the triangle but inside the rectangle and the circle?



- A. D
- B. B
- C. C
- D. A

31. Three different positions X, Y, Z of a dice are shown in the figures given below.
Answer the question based on these figures:

Which number lies at the bottom face in position Y?



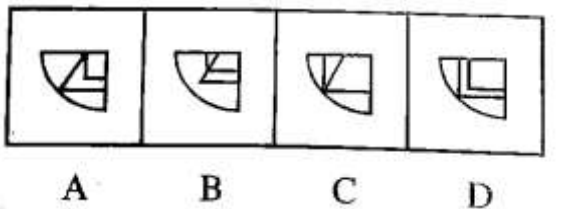
- A. 1
B. 5
C. Cannot be determined
D. 2
32. The number of triangles in this figure is



- A. 20
B. 22
C. 26
D. 28
33. Complete the Pattern from the given alternative figures

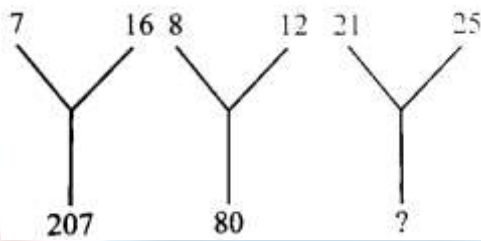


Alternative figures



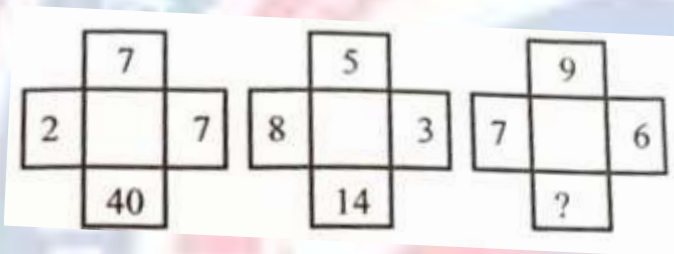
- A. (a)
B. (b)
C. (c)
D. (d)

34. In the question given below which one number can be placed at the sign (?) from the given options.



- A. 425
B. 184
C. 241
D. 210

35. In the question given below which one number can be placed at the sign (?) from the given options.



- A. 72
B. 68
C. 42
D. 96

36. In the question given below which one number when placed at the sign of interrogation shall complete the number matrix.

20	5	7	8
10	3	4	3
?	5	1	6
20	6	9	5

- A. 8
B. 20
C. 10
D. 12

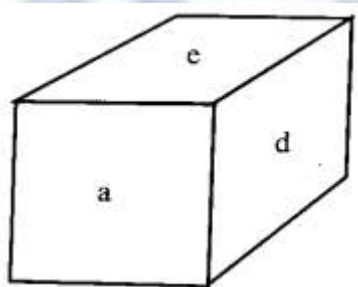
37. In the question given below, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the 2 matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II from 5 to 9. A letter from these matrices can be represented first by its row and next by column number. Identify the set for the word given in each question.

	0	1	2	3	4
0	M	M	R	M	R
1	O	F	R	F	N
2	R	N	O	R	O
3	F	O	F	M	O
4	F	M	R	R	F

	5	6	7	8	9
5	T	G	J	T	G
6	P	J	G	G	U
7	U	T	P	T	J
8	U	T	T	J	P
9	G	U	G	T	P

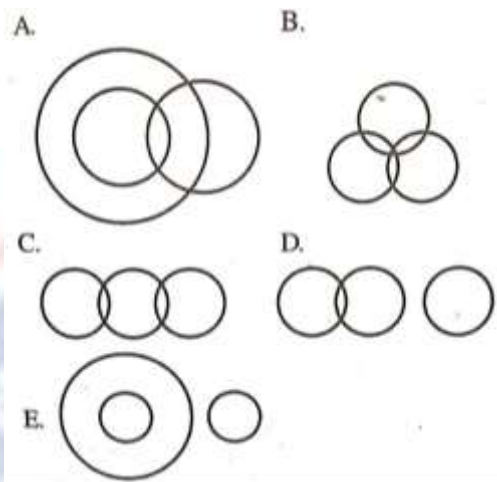
TURF

- A. 57, 86, 44, 11
 B. 86, 75, 20, 32
 C. 77, 68, 41, 44
 D. 89, 97, 12, 30
38. In a dice a, b, c and d are written on the adjacent faces, in a clockwise order and e and f at the top and bottom. When c is at the top, what will be at the bottom?



- A. a
 B. c
 C. e
 D. b
39. A toy cube is painted orange on all sides. It is cut into 64 smaller cubes of equal size. How many smaller cubes are not painted at all?
- A. 4
 B. 8
 C. 16
 D. 20

40. From the five logical diagrams select one which best illustrates the relationship among: **Star, Planet, Saturn**



- A. A
B. B
C. C
D. D

SECTION - C

Mathematical Reasoning & Data Interpretation

41. In the following question, find the wrong term in the series.

3, 4, 0, 9, -8, 18, -18

- A. 0
B. -8
C. 18
D. 4

42. Choose the correct option.

4, 7, 10, 11, 22, 17, 46, 25, ?

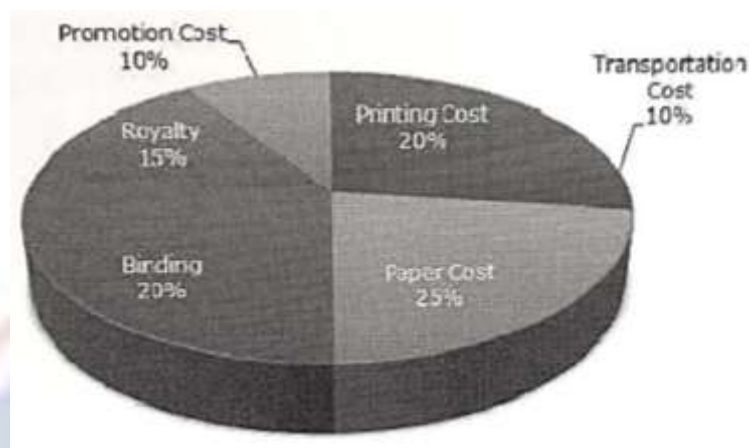
- A. 58
B. 69
C. 86
D. 94

Instructions(43-46): Following is a tabular representation for the exports of different products in the mentioned annual year (in lakhs)

	Years		
	1993-94	1994-95	1995-96
Groundnut	17,000	10,000	23,000
Basmati rice	1,06,000	87,000	85,000
Non-basmati rice	23,000	34,000	3,72,000
Wheat	1,800	4,200	3,700
Other cereals	3,200	2,800	1,700

43. During 1994-95, the two products resulting to 32% of the total exports were.
- Basmati Rice, Wheat
 - Basmati Rice, Other cereals
 - Basmati Rice, Non-basmati rice
 - Groundnut, Non-Basmati rice
44. During 1993-94, the average export of the given products:
- 30,000
 - 29,000
 - 28,000
 - 27,000
45. The percentage export against the cumulative exports for the year shows continuous growth over the period for which product?
- Wheat, Non-basmati rice
 - Non-basmati rice, Other cereals
 - Non-basmati rice, Groundnut
 - None of these
46. In which year does the export in the previous and consecutive next year is in the ratio 14:17 for which amongst the following products?
- Wheat
 - Non-Basmati Rice
 - Basmati Rice
 - None of these

Instructions (47-50): Following is a pie-chart representing the percentage of various costs incurred by a publisher for publishing books.



47. The publisher is paying Rs 25600 as binding cost for a certain amount of books. The promotion cost to be paid for these books would be:
- A. 10,450 B. 12,550
 C. 13,950 D. 14,150
48. Certain angle of sector corresponding to expenditure incurred on royalty:
- A. 15 B. 24
 C. 54 D. 48
49. Price for the books is labelled 10% above C.P. If labelled price of the book is Rs.280, what would be the cost of the paper used in a single copy of the book?
- A. 61 B. 63.64
 C. 69.5 D. 71.36
50. 5,500 copies whenever distributed, Rs 82,500 is the transportation cost, what might be the business cost of the book for the distributor to procure a benefit of 12.5%?
- A. 168.75 B. 171.5
 C. 185 D. 190



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ANSWER SHEET

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