



SAMPLE PAPER

International Olympiad Foundation

EXCELLENCE IN EDUCATION

International Olympiad Foundation

14+

OLYMPIADS

MCQ

FORMAT

0

NEGATIVE MARKS

OLYMPIAD

Reasoning & Aptitude Olympiad

International Olympiad Foundation (IOF) · www.iof.education

CLASS / GRADE

Class 9

SUBJECT

IFRAO

DURATION

60 Min

MAX MARKS

50

GENERAL INSTRUCTIONS

- All questions are Multiple Choice Questions (MCQs) with options A, B, C, D, E
- Each correct answer carries 1 mark. No negative marking for wrong answers.
- Rough work should be done separately. Do not write on question paper.

PAPER HIGHLIGHTS

• **Multiple Choice Questions (MCQ)**

Five options per question (A, B, C, D, E). Select the single most appropriate answer.

• **No Negative Marking**

1 mark per correct answer. Zero deductions — attempt every question.

• **Conducted by IOF**

International Olympiad Foundation — fostering excellence among students across India.

SUBJECTS

- Cyber English Entrepreneurship Mathematics Commerce Economics GK & Current Affairs Science Western Music
Sanskrit Indian Music Hindi Reasoning & Aptitude Spell Talent

ALL IOF OLYMPIAD PROGRAMMES

IFCO International Foundation Cyber Olympiad	IFEOL International Foundation English Olympiad	IFEnO International Foundation Entrepreneurship Olympiad	IFMO International Foundation Mathematics Olympiad	ICS Institute of Company Secretaries of India Commerce Olympiad	IFEcO International Foundation Economics Olympiad	IFGCO International Foundation General Knowledge & Current Affairs Olympiad
IFSO International Foundation Science Olympiad	IFWMuO International Foundation Western Music Olympiad	IFSaO International Foundation Sanskrit Olympiad	IFIMuO International Foundation Indian Music Olympiad	IFHO International Foundation Hindi Olympiad	IFRAO International Foundation Reasoning & Aptitude Olympiad	IFSTO International Foundation Spell Talent Olympiad

Q1- Study the given information and answer the questions.

[+1]
[-0]

4.

A, B, C, E, F, G and H are seven employees in an organization working in the departments of Administration, Accounts and Operations. There are atleast two employees in each department. There are three females, one in each department. Each of the seven employees earns different amount. F works in administration and his only other colleague G earns the maximum. C, the least earner, works in Accounts. B and E are brothers and do not work in the same department. A, husband of H, works in Accounts and earns more than each of F, B and E. The wife in the couple earns more than the husband.

Q1: Which of the following is a group of females?

[+1] [-0]

- A. GCE
- B. GHE
- C. GCH
- D. GHB
- E. None of these

Q2: In which department do three people work?

[+1] [-0]

- A. Operations
- B. Accounts
- C. Operations or Accounts
- D. Data inadequate
- E. None of these

Q3: What will be the position of A from the top when they are arranged in descending order of their incomes?

[+1] [-0]

- A. Second
- B. Third
- C. Fourth
- D. Fifth
- E. None of these

Q4: In which of the following departments does B work?

[+1] [-0]

- A. Operations
- B. Accounts
- C. Operations or Accounts
- D. Data inadequate
- E. None of these

Q5. A pilgrim started from a shrine. After walking straight for 100m, he moved to his right and then after 500m, he again moved to his right. After walking a distance of 100m, he moved to his left and then walked 200m. He again moved to his right and walked 700m. In the end he turned to his left two times.

[+1]
[-0]

What is the approx. distance of his location from the shrine?

- A. 1000m
- B. 1300m
- C. 1400m
- D. 2100m
- E. None of these

Q6. Choose the group of letters which is different from others.

[+1]
[-0]

HJMQ , MORU , NPSW , BDGK , JLOS

- A. HJMQ
- B. MORU
- C. NPSW
- D. BDGK
- E. JLOS

Q7. Choose the correct option.

[+1]
[-0]

Train A leaves town X for town Y and travels at a constant speed. At the same time train B leaves town Y for town X and also travels at a constant speed.

Town Z is between X and Y. Town X, Z and Y lie on a straight line. Which train has greater speed.

Statements: I. Train B arrives at town Z before train A.
II. Town Z is closer to X than Y.

- A. Statement I alone is sufficient to answer the problem.
- B. Statement II alone is sufficient to answer the problem.
- C. Statement I and II both are needed.
- D. Statement I and II both are not sufficient.
- E. None of these

Q8. Complete the following letter series by choosing the correct sequence from the given alternatives.

[+1]
[-0]

m_n_nnm_nm__

- A. mnmnm
- B. nmnmn
- C. nmnnn
- D. mnmnm
- E. nmnmn

\

Q9. If '367' means 'I am happy', '748' means 'you are sad', and '469' means 'happy and sad' in a given code, then which of the following represents 'and' in that code.

[+1]
[-0]

- A. 3
- B. 6
- C. 9
- D. 4
- E. None of these

Q10. Choose the word which will complete the second pair in the same way as first pair?

[+1]
[-0]

Foresight : Anticipation :: Insomnia: ?

- A. Treatment
- B. Disease
- C. Sleeplessness
- D. Unrest
- E. None of these

Q11. Select the lettered pair that has the same relationship as the original pair of words.

[+1]
[-0]

Thanks : Gratitude

- A. Courtesy : Manners
- B. Salutation : Flag
- C. Protest : Resentment
- D. Trial : Error
- E. None of these

Q12. Choose the odd one out.

[+1]
[-0]

Garnet , Ruby , Graphite , Emerald , Topaz

- A. Garnet
- B. Ruby
- C. Graphite
- D. Emerald
- E. Topaz

Q13. Choose the next term of the series from the given options.

[+1]
[-0]

CAT , FDW , IGZ , __?__

- A. KJA
- B. KTC
- C. LHD
- D. LJC
- E. None of these

Q14. If in certain language, CLASS is coded as HQFXX which word would be coded as AHEAD.

[+1]
[-0]

- A. VDZOY
- B. VCWVK
- C. VCZVY
- D. VCKVW
- E. None of these

Q15. Given that:

[+1]
[-0]

- i) F is the brother of A
- ii) C is the daughter of A
- iii) K is the sister of F
- iv) G is the brother of C.

Who is the uncle of G?

- A. A
- B. C
- C. F
- D. K
- E. None of these

Q16. If the positions corresponding to the multiples of 5 in the English alphabet are replaced by symbols and that of multiples of 7 by digits, how many Letters will be left ?

[+1]
[-0]

- A. 15
- B. 17
- C. 18
- D. 21
- E. None of these

Q17. Arrange the given words as in a dictionary and select the word which will come in the middle.

[+1]
[-0]

Donate , Donjon , Donkey , Donative , Donator

- A. Donate
- B. Donjon
- C. Donkey
- D. Donative
- E. Donator

Q18. A mirror is placed in front of the clock. The clock shows time 5:40. What will be its reflection in the mirror?

[+1]
[-0]

- A. 5:20
- B. 6:20
- C. 6:40
- D. 6:00
- E. None of these

Q19. In the given question two statements P and Q are followed by four conclusions (a), (b), (c) and (d). Which of these conclusions are logical outcome of the information obtained from the two statements.

[+1]
[-0]

Statements

P : Meena is born two years after Manisha.
Q : Mohan is born before Manisha.

Conclusions

- (a) Mohan is elder to Meena
- (b) Manisha is youngest of all the three.
- (c) Meena is youngest of all the three.
- (d) Manisha has one brother and one sister.

- A. (a) and (b)
- B. (a) and (c)
- C. (b) and (c)
- D. (b) and (d)
- E. None of these

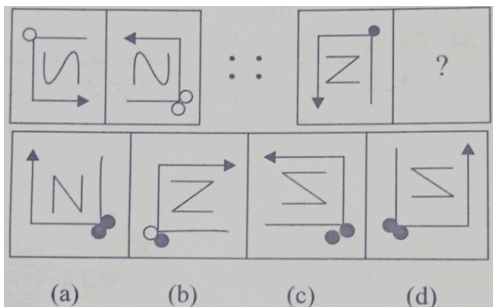
Q20. If Saturday falls four days after today which is 6th January on which day did the first of December of the previous year fall?

[+1]
[-0]

- A. Tuesday
- B. Friday
- C. Sunday
- D. Monday
- E. Thursday

Q21. Choose the figure which will complete the second pair in the same way as first pair.

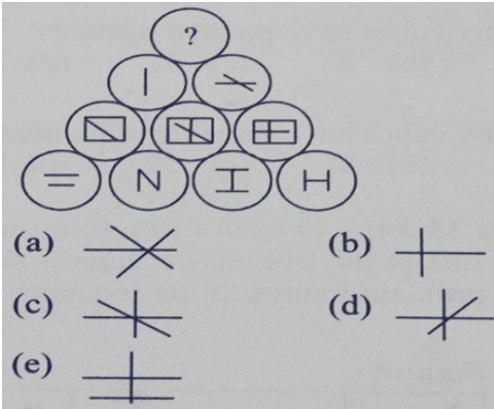
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q22. Choose the correct option which will replace the question mark.

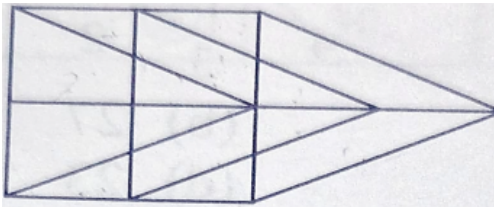
[+1]
[-0]



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

Q23. How many triangles and parallelograms are there in the given figure?

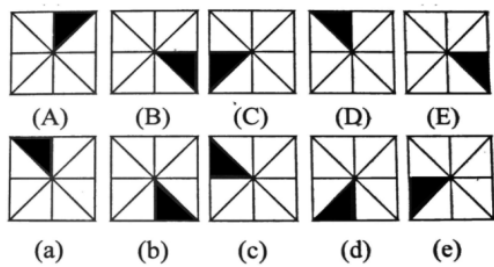
[+1]
[-0]



- A. 19, 17
- B. 21, 15
- C. 19, 13
- D. 21, 17
- E. None of these

Q24. Choose the correct option to continue the series.

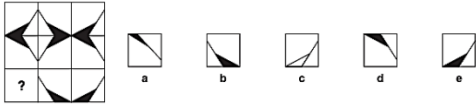
[+1]
[-0]



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

Q25. Choose the correct option which will replace the question mark.

[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. e

Q26. Choose the figure which will complete the second pair in the same way as first pair.

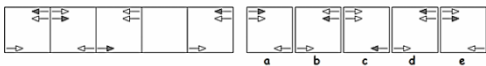
[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. e

Q27. Choose the correct option to complete the series.

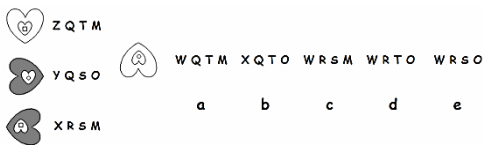
[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. e

Q28. On the left are some shapes and the codes that go with them. Decide how the code letters go with the shapes and make the correct code for the shape given on right side from the set of five codes.

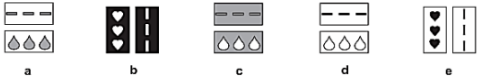
[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. e

Q29. Choose the odd one out.

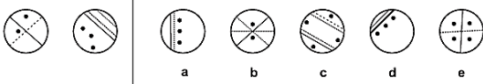
[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. e

Q30. In the given question there are two figures that are like each other in some way. Find which of the five figures on the right is most like the two figures on the left.

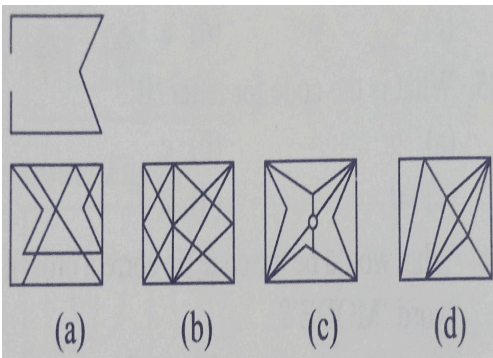
[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. e

Q31. Choose the correct option in which the problem figure is hidden.

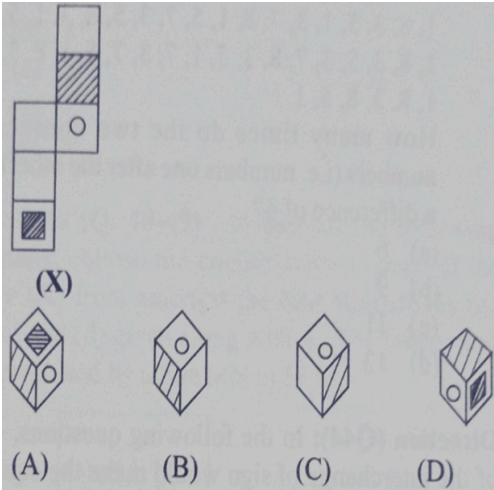
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q32. Choose the correct option in which the cubes that are similar to the net will be formed.

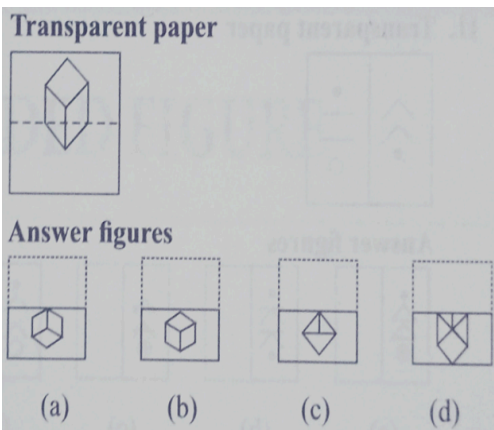
[+1]
[-0]



- A. (A) and (B) only
- B. (A), (B) and (D) only
- C. (A) and (D) only
- D. (A), (B) and (C) only
- E. None of these

Q33. Choose the correct option which would like the one when the paper is folded at the dotted line.

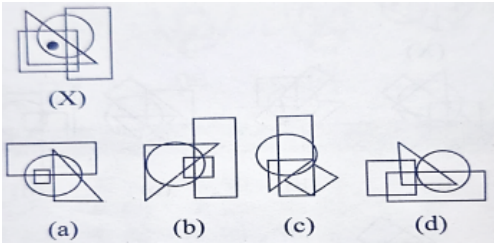
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q34. Choose the correct option which satisfies the same conditions of placement of the dot as in fig(X).

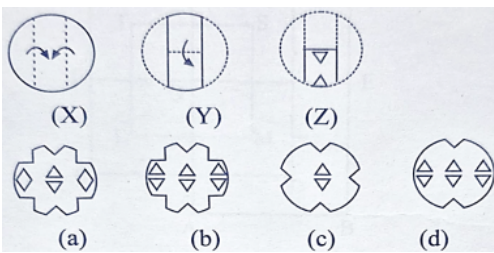
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q35. In the given question, the paper is folded as shown with dotted line and then cut. Choose the correct option when paper is unfolded.

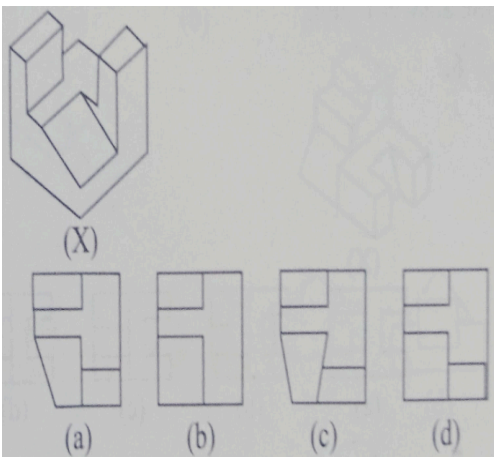
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q36. Problem figure shows the view of an object. Identify the correct top view from amongst the answer figures.

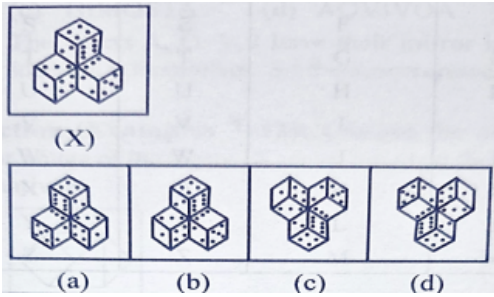
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q37. Choose the correct water image of the figure(X).

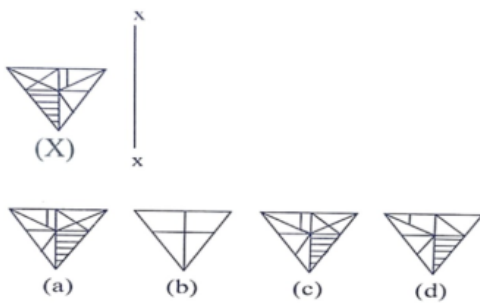
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q38. Choose the correct mirror image of the figure(X) from the given options.

[+1]
[-0]

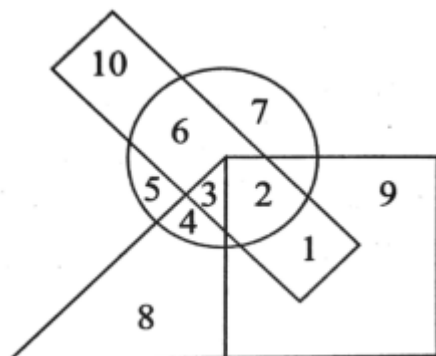


- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q39. In the given figure, the triangle represents girls, the circle represents athletes, the rectangle represents boys and the square represents disciplined.

[+1]
[-0]

The boys who are athletes and disciplined are indicated by which number?



- A. 1
- B. 2
- C. 6
- D. 10
- E. None of these

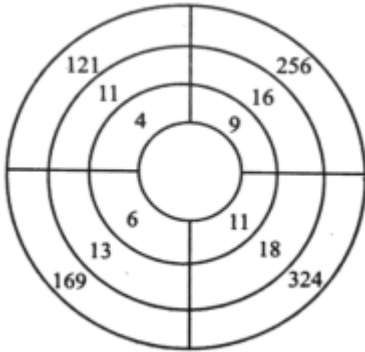
Q40. A cube, painted yellow on all faces is cut into 27 small cubes of equal size. How many small cubes are painted on one face only?

[+1]
[-0]

- A. 1
- B. 6
- C. 8
- D. 12
- E. None of these

Q41. In the given figure, three circles are concentric. If the fourth innermost circle is drawn, what will be the number to be inscribed there?

[+1]
[-0]



- A. 8
- B. 7
- C. 3
- D. 1
- E. None of these

Q42. Choose the number which will complete the second pair in the same way as first pair.

[+1]
[-0]

$$68 : 130 :: ? : 350$$

- A. 210
- B. 216
- C. 222
- D. 240
- E. None of these

Q43. Choose the odd numeral pair.

[+1]
[-0]

- A. 21:6
- B. 28:4
- C. 42:12
- D. 84:24
- E. None of these

Q44. Choose the correct option to continue the series.

[+1]
[-0]

3, 8, 22, 63, 185, ?

- A. 355
- B. 550
- C. 310
- D. 295
- E. 285

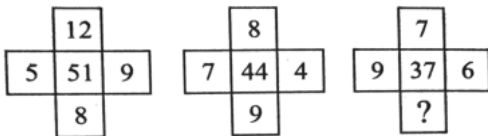
Q45. If $>$ stands for multiplication, $=$ stands for less than, x stands for addition, \div stands for greater than, $+$ stands for division, $-$ stands for equal to, $<$ stands for subtraction then which one of the following is correct ?

[+1]
[-0]

- A. $5 + 3 < 7 - 8 \times 4 + 2$
- B. $5 \times 3 < 7 - 8 + 4 > 2$
- C. $5 \times 3 \times 7 = 8 > 4 + 2$
- D. $5 < 3 > 7 - 8 > 4 + 2$
- E. None of these

Q46. Choose the correct option in place of question mark.

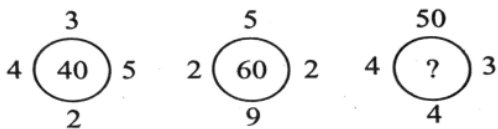
[+1]
[-0]



- A. 3
- B. 4
- C. 5
- D. 13
- E. None of these

Q47. Choose the correct option in place of question mark.

[+1]
[-0]



- A. 80
- B. 36
- C. 800
- D. 808
- E. None of these

Q48. Choose the correct option in place of question mark.

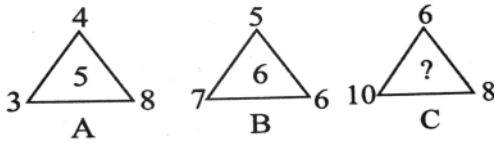
[+1]
[-0]

3	4	5
3	7	12
3	?	22

- A. 11
- B. 10
- C. 9
- D. 8
- E. None of these

Q49. Choose the correct option in place of question mark.

[+1]
[-0]



- A. 15
- B. 13
- C. 9
- D. 8
- E. None of these

Q50. Choose the correct option to continue the series.

[+1]
[-0]

1, 1, 2, 2, 3, 4, 4, 8, 5, 16, ?

- A. 7
- B. 6
- C. 8
- D. 32
- E. None of these



CLASS / GRADE

Class 9

SUBJECT

IFRAO

TOTAL QUESTIONS

50

MAX MARKS

50

ANSWER SHEET — 50 QUESTIONS

Q01 - Q10	ANSWER	Q11 - Q20	ANSWER	Q21 - Q30	ANSWER	Q31 - Q40	ANSWER	Q41 - Q50	ANSWER
Q01	C	Q11	C	Q21	D	Q31	C	Q41	B
Q02	C	Q12	C	Q22	C	Q32	B	Q42	C
Q03	B	Q13	D	Q23	D	Q33	D	Q43	B
Q04	C	Q14	C	Q24	D	Q34	B	Q44	B
Q05	A	Q15	C	Q25	E	Q35	D	Q45	C
Q06	B	Q16	C	Q26	C	Q36	D	Q46	D
Q07	C	Q17	E	Q27	E	Q37	C	Q47	C
Q08	C	Q18	B	Q28	D	Q38	C	Q48	B
Q09	C	Q19	B	Q29	D	Q39	B	Q49	D
Q10	C	Q20	D	Q30	C	Q40	B	Q50	B

◆ ALL IOF OLYMPIAD PROGRAMMES ◆

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