



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 8

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. Choose the correct option.

[+1]
[-0]

ABILITY is related to IBALYTI in the same way as SOLVING is related to

- A. GNIVLOS
- B. GNIVSOL
- C. LOSVGNI
- D. LOSVING
- E. None of these

Q2. Choose the correct option to continue the series.

[+1]
[-0]

PMT, OOS, NQR, MSQ, ?

- A. LWP
- B. LVR
- C. LVP
- D. LUP
- E. None of these

Q3. Choose the group of letters which is different from others.

[+1]
[-0]

JTR , HPN , MZX , KVS

- A. JTR
- B. HPN
- C. MZX
- D. KVS
- E. None of these

Q4. In a certain code language 'ku fe te pa' means 'He is eating now', 'te sa ku' means 'eating is necessary', 'pa no it' means 'He was serious' and 'ti te re' means 'is work was'.

[+1]
[-0]

On the basis of the above information, the code of which of the following words can definitely be found?

- A. eating
- B. he
- C. necessary
- D. All of these
- E. None of these

Q5. If 'FRIHH' stands for 'COFFEE', then how will you write 'NOODLES'?

[+1]
[-0]

- A. RSSHPIW
- B. PQQFNGU
- C. QRRGOHV
- D. RSSHPIV
- E. None of these

Q6. Find out the word that means the same as given phrase.

[+1]
[-0]

One who can speak two languages

- A. LLUAGUILT
- B. LUGALBNII
- C. GICTUSLNII
- D. ARLCSHO
- E. None of these

Q7. Arrange the following words in a logical and meaningful order.

[+1]
[-0]

1. Gram 2. Decigram 3. Hectogram 4. Kilogram 5. Centigram

- A. 4 – 2 – 3 – 1 – 5
- B. 4 – 3 – 1 – 2 – 5
- C. 5 – 2 – 1 – 4 – 3
- D. 4 – 3 – 2 – 1 – 5
- E. None of these

Q8- Read the information given below and answer the question that follows.

[+1]
[-0]

9.

- (i) There is a group of five boys.
- (ii) Varun is second in height but younger than Rahul
- (iii) Parveen is taller than Mohit but younger in age.
- (iv) Rahul and Mohit are of the same age but Rahul is taller between them.
- (v) Nitin is taller than Parveen and elder to Rahul.
- (vi) Varun is not the youngest in the group.

Q8: If the boys are arranged in the ascending order of heights, then who will be in third position? [+1] [-0]

- A. Mohit
- B. Nitin
- C. Mohit or Rahul
- D. Data inadequate
- E. None of these

Q9: If they are arranged in the descending order of their ages, then who will be in fourth position? [+1] [-0]

- A. Mohit or Rahul
- B. Varun
- C. Parveen
- D. Data inadequate
- E. None of these

Q10. If letters of the English alphabets are written from right to left, then which letter is fifth to the right of the seventeenth letter from the right end?

[+1]
[-0]

- A. K
- B. M
- C. L
- D. V
- E. None of these

- Q11.** Some friends are sitting in a row, Ronald is sitting 17th from the left and Clark is 7th from the right end. If there is no friend between Ronald and Clark and Clark is left of Ronald, then how many persons are there in the row? [+1]
[-0]
- A. 24
 - B. 22
 - C. 23
 - D. 25
 - E. None of these
- Q12.** Pragyan is facing North, He turns 180° in anticlockwise direction and then 135° in clockwise direction. In which direction is he facing now? [+1]
[-0]
- A. North
 - B. South East
 - C. South West
 - D. North-West
 - E. None of these
- Q13.** A bus for Chandigarh leaves after every 40 minutes, Alok upon enquiring office came to know that the last bus had left at 12:25 pm and the next bus is due to leave in another 10 min. At what time did Alok enquire from the enquire office? [+1]
[-0]
- A. 11:55 am
 - B. 12:55 pm
 - C. 12:35 pm
 - D. 12:45 pm
 - E. None of these
- Q14.** Which year next to 1996 will have the same calendar as that of the year 1996? [+1]
[-0]
- A. 1998
 - B. 1997
 - C. 2023
 - D. 2024
 - E. None of these
- Q15.** A, B and C are sisters. D is the brother of E and E is the daughter of B. How is A related to D? [+1]
[-0]
- A. Sister
 - B. Cousin
 - C. Niece
 - D. Aunt
 - E. None of these

Q16. In the given letter series, some of the letters are missing which are given in that order as one of the options below it. Choose the correct option.

[+1]
[-0]

_nmmn_mmnn_mnnm_

- A. nmmn
- B. mnnm
- C. nnmm
- D. nmnm
- E. None of these

Q17. Select the lettered pair that has the same relationship as the original pair of words.

[+1]
[-0]

Acoustic : Sound

- A. Mathematics : Geometry
- B. Radio : Song
- C. Pathology : disease
- D. Communication : Phone
- E. None of these

Q18. Which word completes the second pair in the same way as first pair?

[+1]
[-0]

Deciduous : Willow :: Coniferous : ?

- A. Lime
- B. Spruce
- C. Oak
- D. Elm
- E. None of these

Q19. Choose the odd one out.

[+1]
[-0]

Skull , Appendix , Pelvis , Fibula , Vertebra

- A. Skull
- B. Appendix
- C. Pelvis
- D. Fibula
- E. Vertebra

Q20. Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.

[+1]
[-0]

1. Scissors 2. Scorpion 3. Schedule 4. Semester 5. Sensitive

- A. 3, 2, 1, 4, 5
- B. 3, 1, 2, 4, 5
- C. 3, 1, 2, 5, 4
- D. 2, 3, 1, 4, 5
- E. None of these

Q21. Choose the odd one out.

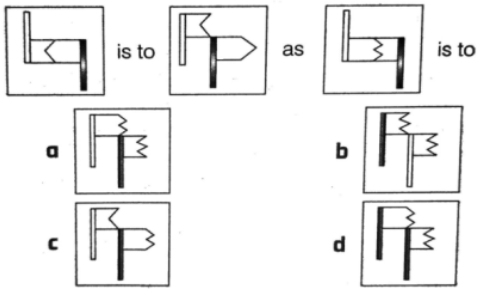
[+1]
[-0]



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

Q22. Which figure completes the second pair in the same way as the first pair?

[+1]
[-0]



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

Q23. Find which of the five figures on the right is most like the two figures on left.

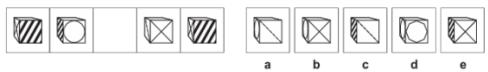
[+1]
[-0]



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

Q24. Choose the correct option to complete the series.

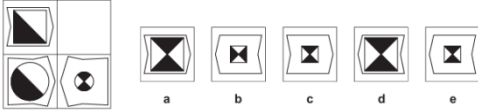
[+1]
[-0]



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

Q25. Choose the correct option to complete the grid.

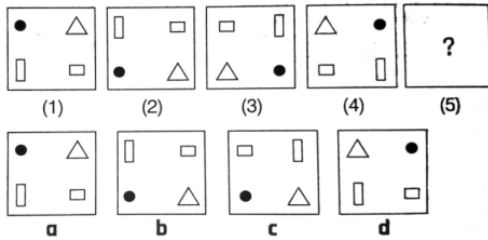
[+1]
[-0]



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

Q26. Choose the correct option to continue the series.

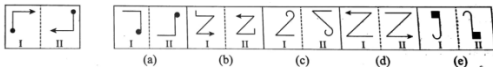
[+1]
[-0]



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

Q27. Select the pair of figures that has the same relationship as the original pair of figures.

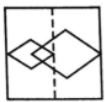
[+1]
[-0]



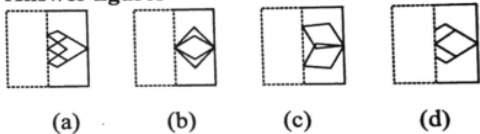
- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. (e)

Q28. From amongst the four answer figures, choose the one which resembles the transparent sheet after folding it along the dotted line.

[+1]
[-0]



Answer figures



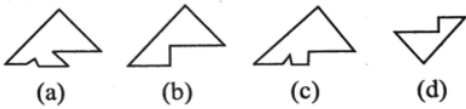
- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q29. Choose the correct option which is embedded in given figure(X).

[+1]
[-0]



(X)



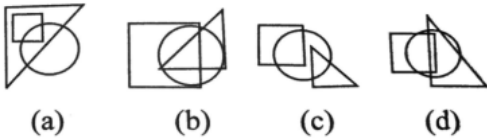
- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q30. Choose one figure from the four option figures, which best explains the characteristics given in the question figure(X).

[+1]
[-0]



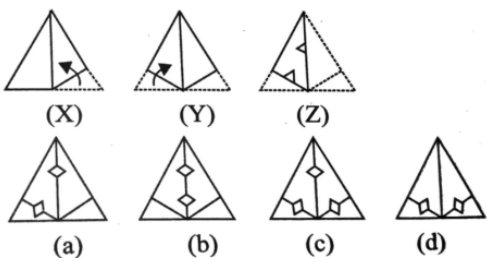
(X)



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

Q31. A piece of paper is folded as shown in the figures X , Y and Z and then cut. Choose the correct option from the answer figures which appears the same when unfolded.

[+1]
[-0]



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

Q32. Choose the correct water image of the given figure.

[+1]
[-0]



a

b

c

d

A. a

B. b

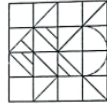
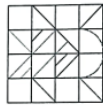
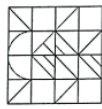
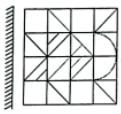
C. c

D. d

E. None of these

Q33. Choose the correct mirror image of the given figure.

[+1]
[-0]



a

b

c

d

A. a

B. b

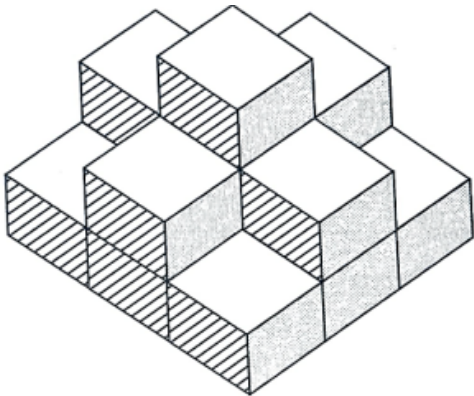
C. c

D. d

E. None of these

Q34. Calculate the number of cubes required to make the figure a perfect cube.

[+1]
[-0]



A. 15

B. 12

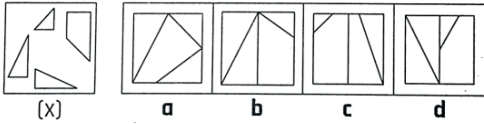
C. 19

D. 10

E. None of these

Q35. Find out the figure which can be formed from the parts given in fig(X).

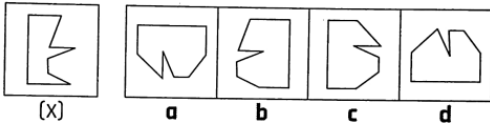
[+1]
[-0]



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

Q36. Select a figure from the given options which fits exactly into figure(X) to form a complete square.

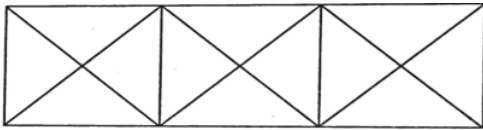
[+1]
[-0]



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

Q37. Count the number of triangles and squares in the figure given below.

[+1]
[-0]



- A. 28 triangles, 2 squares
- B. 24 triangles, 5 squares
- C. 28 triangles, 5 squares
- D. 24 triangles, 3 square
- E. None of these

Q38. Two positions of a dice are given below. Which number will be at the bottom?

[+1]
[-0]



- A. 1
- B. 5
- C. 3
- D. 4
- E. None of these

Q39. Choose the correct option that can be formed by folding the net shown in figure(X).

[+1]
[-0]

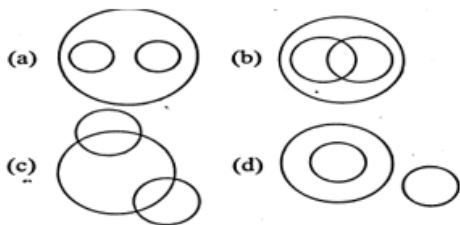


- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q40. Which of the following Venn diagrams correctly represents

[+1]
[-0]

Plums, Tomatoes, Fruits



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

Q41. Choose the number that has the same relationship as the original pair of numbers.

[+1]
[-0]

$$45: 20 :: 51: ?$$

- A. 23
- B. 22
- C. 27
- D. 19
- E. None of these

Q42. Choose the correct option to continue the series.

[+1]
[-0]

$$29, 48, 67, 86, ?$$

- A. 95
- B. 104
- C. 94
- D. 105
- E. None of these

Q43. Choose the number which is different from others.

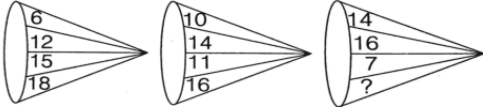
[+1]
[-0]

396, 682, 792, 374, 781, 683

- A. 781
- B. 683
- C. 374
- D. 792
- E. None of these

Q44. Find the number that replaces the question mark.

[+1]
[-0]



- A. 10
- B. 12
- C. 11
- D. 14
- E. None of these

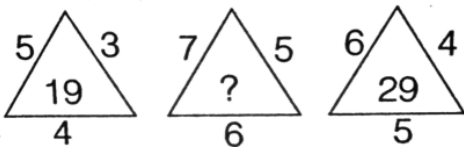
Q45. If the interchanges '+' and '÷' as well as '2' and '4' are made, then which one of the following options will become correct?

[+1]
[-0]

- A. $4 \div 2 + 3 = 15$
- B. $2 + 4 \div 6 = 8$
- C. $4 + 2 \div 6 = 15$
- D. $2 + 4 \div 3 = 3$
- E. None of these

Q46. Choose the correct option that will replace the question mark?

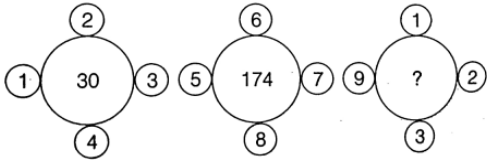
[+1]
[-0]



- A. 25
- B. 37
- C. 41
- D. 47
- E. None of these

Q47. Choose the correct option that will replace the question mark.

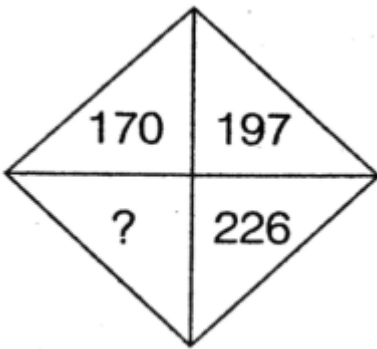
[+1]
[-0]



- A. 56
- B. 95
- C. 72
- D. 96
- E. None of these

Q48. Find the number that will replace the question mark.

[+1]
[-0]



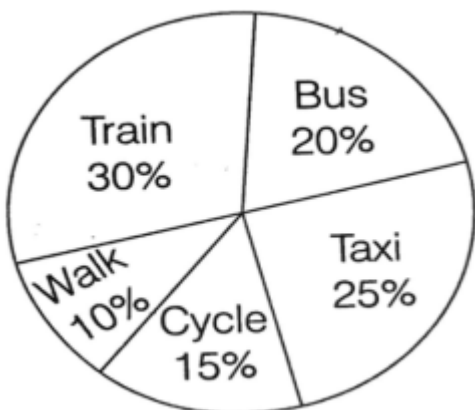
- A. 255
- B. 256
- C. 257
- D. 296
- E. None of these

Q49. Study the pie chart and answer the question.

[+1]
[-0]

Total number of persons = 1000

What is the total number of persons travelling by train?



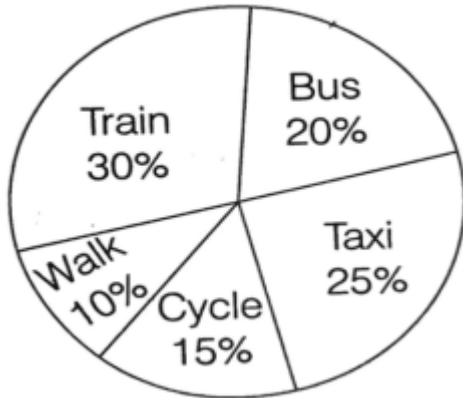
- A. 150
- B. 300
- C. 200
- D. 250
- E. None of these

Q50. Study the pie chart and answer the question.

[+1]
[-0]

Total number of persons = 1000

What is the total number of persons travelling by non-motor means?



- A. 200
- B. 250
- C. 350
- D. 300
- E. None of these

CLASS / GRADE
Class 8SUBJECT
IFRAOTOTAL QUESTIONS
50MAX MARKS
50

ANSWER SHEET — 50 QUESTIONS

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

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