



EXCELLENCE IN EDUCATION

International Olympiad Foundation

14+

OLYMPIADS

MCQ

FORMAT

0

NEGATIVE MARKS

SAMPLE PAPER

International Olympiad Foundation

OLYMPIAD

Mathematics Olympiad

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

CLASS / GRADE

Class 5

SUBJECT

IFMO

DURATION

60 Min

MAX MARKS

35

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 odd one out.

[+1]
[-0]

ACE , PRT , UWY , MNO , GIK

- A. ACE
- B. PRT
- C. UWY
- D. MNO
- E. GIK

Q2. Choose the odd one out.

[+1]
[-0]

325 , 236 , 178 , 639 , 538

- A. 325
- B. 236
- C. 178
- D. 639
- E. 538

Q3. Choose the correct option which will complete the second pair in the same way as first pair.

[+1]
[-0]

Glucose : Carbohydrate :: Soyabean : ?

- A. Vitamins
- B. Minerals
- C. Proteins
- D. Legumes
- E. None of these

Q4. Choose the correct option.

[+1]
[-0]

Gardener is related to Trowel in the same way as Seamstress is related to

- A. Saw
- B. Scissors
- C. Sneakers
- D. Crowbar
- E. None of these

Q5. Select the lettered pair that has the same relationship as the original pair of words.

[+1]
[-0]

Crown : Royal

- A. Throne : Regal
- B. Wrap : Ermine
- C. Pen : Author
- D. Crucifix : Religion
- E. None of these

Q6. Choose the most appropriate description about the three given words.

[+1]
[-0]

Sapphire : Ruby : Topaz

- A. They belong to the family of fishes.
- B. They are precious minerals.
- C. They are precious stones.
- D. They are used as abrasives.
- E. None of these

Q7. Choose the correct option to continue the series.

[+1]
[-0]

66, 36, 18, ?

- A. 3
- B. 6
- C. 8
- D. 9
- E. None of these

Q8. The missing letters are given in the proper sequence as one of the option. Choose the correct option.

[+1]
[-0]

__ a b a __ b a _ a b

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

Q9. If VICTORY is coded as YLFWRUB, how can SUCCESS be coded in the same way?

[+1]
[-0]

- A. VXEEIVV
- B. VXFFHVV
- C. VYEEHVV
- D. VYEFIVV
- E. None of these

Q10. Pointing to a man on the stage, Rita said, "He is the brother of the daughter of the wife of my husband". How is the man on the stage related to Rita?

[+1]
[-0]

- A. Cousin
- B. Husband
- C. Son
- D. Nephew
- E. None of these

Q11. What is the unit digit in the product (684 x 759 x 413 x 676)?

[+1]
[-0]

- A. 4
- B. 8
- C. 6
- D. 9
- E. None of these

Q12. If the number 517 * 324 is completely divisible by 3, then the smallest whole number in place of * will be _____.

[+1]
[-0]

- A. 0
- B. 1
- C. 2
- D. 3
- E. None of these

Q13. If 'a' and 'b' are odd numbers, then which of the following is even?

[+1]
[-0]

- A. $ab + 2$
- B. $a+b+1$
- C. $a+b$
- D. ab
- E. None of these

Q14. Which of the following has most number of divisors?

[+1]
[-0]

- A. 99
- B. 101
- C. 176
- D. 182
- E. None of these

Q15. Choose the correct option.

[+1]
[-0]

$$? \div 0.025 = 8$$

- A. 1
- B. 2
- C. 0.2
- D. 3
- E. None of these

Q16. By how much is three – fifth of 350 greater than four –seventh of 210?

[+1]
[-0]

- A. 95
- B. 110
- C. 120
- D. 210
- E. 90

Q17. What fraction of $\frac{4}{7}$ must be added to itself to make the sum $1\frac{1}{14}$?

[+1]
[-0]

A. $\frac{1}{2}$

B. $\frac{4}{7}$

C. $\frac{7}{8}$

D. $\frac{15}{14}$

E. None of these

Q18. If one-third of a tank holds 80 litres of water, then the quantity of water that half of the tank holds is :

[+1]
[-0]

A. 80 litres

B. 100 litres

C. 120 litres

D. 240 litres

E. None of these

Q19. Choose the correct option.

[+1]
[-0]

$$12 \times 12 - 11 \times 4 = \underline{\quad} \times 9 + 28$$

A. 7

B. 8

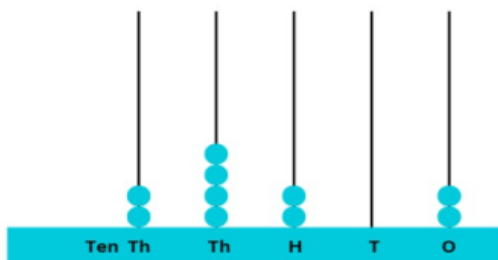
C. 9

D. 10

E. None of these

Q20. In the given abacus where should a bead be added, so as to make the number lying between 24631 and 25212?

[+1]
[-0]



A. One

B. Hundreds

C. Thousands

D. Ten thousand

E. None of these

Q21. Which number will come in the start box to have a meaningful proceeding?

[+1]
[-0]



- A. 360
- B. 384
- C. 1350
- D. 1.50
- E. None of these

Q22. There are 15 rows of mango trees in a farm. Each row has 325 trees. Trees of 6 rows are cut down. The total number of remaining mango trees in the park is

[+1]
[-0]

- A. 4875
- B. 2925
- C. 1950
- D. 2900
- E. None of these

Q23. Pinky joined three activities i.e. Singing, dancing and drawing.

[+1]
[-0]

<p>I. She went for singing class once in every 3 days. II. She went for dancing class once in every 4 days. III. She went for drawing class once in every 6 days.</p> <p>The calendar shows that Pinky did all the activities on Monday 5th. On which day will Pinky again do all three activities on the same day?</p>	<p>NOVEMBER</p> <table border="1"> <thead> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> </tr> <tr> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td></td> </tr> </tbody> </table>	S	M	T	W	T	F	S					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
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18	19	20	21	22	23	24																																					
25	26	27	28	29	30																																						

- A. 12th, Monday
- B. 17th Saturday
- C. 21st, Wednesday
- D. 30th, Friday
- E. None of these

Q24. The score of players in a video game is given below.

[+1]
[-0]

What is the difference between the score of the winner and the loser?

KEN	SHIM	ROSE	JACK	DEN
$\frac{75}{100}$	$\frac{46}{50}$	$\frac{54}{60}$	$\frac{72}{100}$	$\frac{89}{100}$

A. $\frac{14}{20}$

B. $\frac{1}{5}$

C. $\frac{13}{100}$

D. $\frac{15}{40}$

E. None of these

Q25. Victor can kick a football $7\frac{5}{7}$ ft. high, Leon can kick the same ball $10\frac{4}{5}$ ft. high. How many times far can Victor throw the ball as compared to Leon?

[+1]
[-0]

A. $\frac{2}{3}$

B. $\frac{7}{4}$

C. $\frac{5}{7}$

D. $\frac{2}{5}$

E. None of these

Q26. Robin likes to collect different types of stamps and paste it on a scrapbook of page size 7.5cm by 6cm. If all the stamps in a scrapbook are of same size as 2.5cm by 1.5cm. How many such stamps can be collected by placing them side by side in a scrapbook having 10 such pages?

[+1]
[-0]

A. 110

B. 100

C. 125

D. 120

E. None of these

Q27. Choose the missing number.

[+1]
[-0]

42040 + _____ is 10100 less than smallest 6-digit number. Then, the missing number is

- A. 32190
- B. 47860
- C. 46060
- D. 52440
- E. None of these

Q28. State 'T' for true and 'F' for false and choose the correct option.

[+1]
[-0]

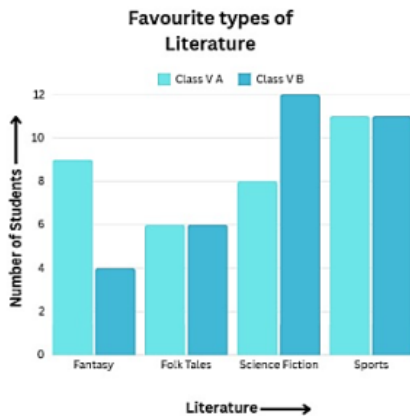
I. Place value and face value are always equal for '0'.	I	II	III	IV
II. Successor of a number is one less than the number.	T	T	F	T
III. Predecessor of the smallest natural number is the smallest even number.	F	T	T	F
IV. The roman numeral to represent $V - I = IV$	T	F	T	T
	d	F	F	T

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

Q29. The graph below shows the favourite types of literature of the students of class V(A) and class V(B). On the basis of it answer the question that follows.

[+1]
[-0]

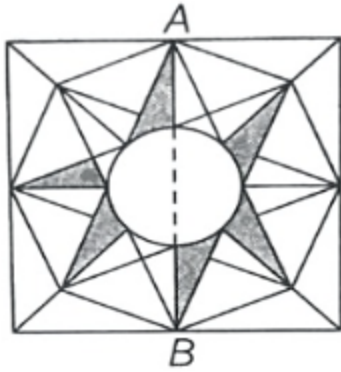
Which type of literature is more preferred by students in class V(A) than in class V(B) and how many students preferred the same? (Scroll down to view complete question)



- A. Sports, 9
- B. Fantasy, 5
- C. Folktales, 4
- D. Science fiction, 3
- E. None of these

Q30. How many triangles must be shaded to make AB as the line of symmetry?

[+1]
[-0]



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

Q31. The table below shows the number of food items collected by four classes for a donation camp. It also shows the number of days each class collected food items during the donation program. Which class collected the maximum number of food items?

[+1]
[-0]

CLASS	Packets of food items (per day)	Days Collected
Class 1	728	25
Class 2	225	40
Class 3	374	20
Class 4	280	30

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

Q32. The table below shows the number of food items collected by four classes for a donation camp. It also shows the number of days each class collected food items during the donation program.

[+1]
[-0]

If class 2 has to collect the same number of packets in 40 days as collected by Class 1 in 25 days, then how many packets Class 2 has to collect in one day.

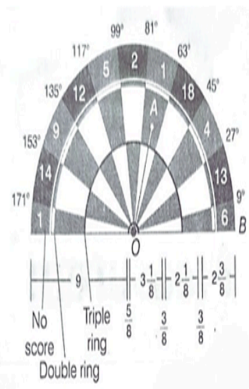
CLASS	Packets of food items (per day)	Days Collected
Class 1	728	25
Class 2	225	40
Class 3	374	20
Class 4	280	30

- A. 728
- B. 210
- C. 455
- D. 242
- E. None of these

Q33. A dart board is 18 inch across. It is divided into twenty wedges of equal size. The score of a mark is indicated by numbers around the board. Only the top of the dart board is shown. (Scroll down to view complete question)

[+1]
[-0]

Jack gets two turns to get a score of 18 such that the sum of his score should not exceed 18 in order to win. If in the first chance he scores 4, then at which angle he should land his dart to win the game?



Statement I : At any angle greater than 153° but not more than 170° .

Statement II : At any angle less than or equal to 170°

Statement III : At any angle less than 135° but not less than 116° .

Statement IV : At an angle not more than 90° .

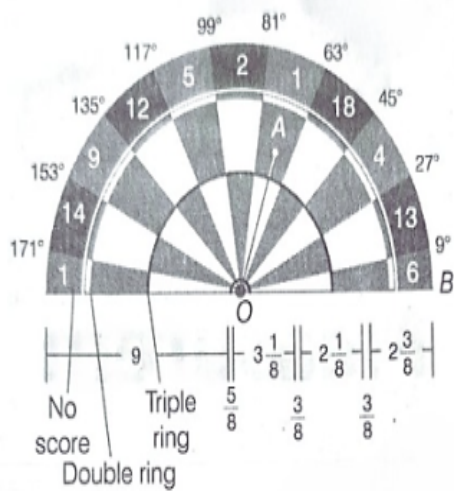
Which of the above statements will be definitely true to obtain the score?

- A. I
- B. II
- C. III
- D. IV
- E. None of these

Q34. A dart board is 18 inch across. It is divided into twenty wedges of equal size. The score of a mark is indicated by numbers around the board. Only the top of the dart board is shown.

[+1]
[-0]

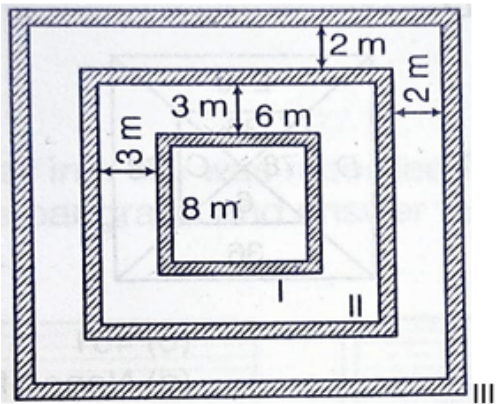
If Sandy's first and second aim always land between the angle 46° to 90° and 100° to 130° respectively then what would be the maximum score she can get? (Scroll down to view complete question)



- A. 25
- B. 30
- C. 23
- D. 20
- E. None of these

Q35. Susan, Laden, John run on different tracks of a rectangular field. If the dimensions of the tracks are given below, then what is the difference between the length of boundary of track III and track I? (neglecting the width of the track)

[+1]
[-0]



- A. 68m
- B. 40m
- C. 24m
- D. 16m
- E. None of these



CLASS / GRADE

Class 5

SUBJECT

IFMO

TOTAL QUESTIONS

35

MAX MARKS

35

ANSWER SHEET — 35 QUESTIONS

Q01-Q07	ANS	Q08-Q14	ANS	Q15-Q21	ANS	Q22-Q28	ANS	Q29-Q35	ANS
Q01	D	Q08	B	Q15	C	Q22	B	Q29	B
Q02	B	Q09	B	Q16	E	Q23	B	Q30	C
Q03	C	Q10	C	Q17	C	Q24	B	Q31	A
Q04	B	Q11	B	Q18	C	Q25	C	Q32	C
Q05	D	Q12	C	Q19	B	Q26	D	Q33	A
Q06	C	Q13	C	Q20	C	Q27	B	Q34	B
Q07	C	Q14	C	Q21	C	Q28	C	Q35	B

◆ ALL IOF OLYMPIAD PROGRAMMES ◆

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