The Gen X Series

IMO International Mathematics Olympiad
NSO National Science Olympiad
NCO National Cyber Olympiad
IEO International English Olympiad

OLYMPIAD SAMPLE PAPERS 7

Useful for Olympiads Conducted at School, National & International Levels

Compiled By
Shuchita Singhal

Strictly According to the Latest Syllabus of Olympiad

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Yes! These Sample Papers are the virtual replicas of the actual exam papers. Inclusion of two sets each for Science, Maths, English and Cyber subjects from classes 1 to 10 in respective books are believed to be adequate to prepare students mentally for 'live exam conditions.' Anything else would have been 'under-preparation' or over-preparation'

You will hardly be able to differentiate the Sample Papers from the Actual Exam Papers. All this has been made possible by the people who have been in their respective fields for years – coaching and guiding students to succeed in this vital exam.

P.S. While every care has been taken to ensure correctness of content, if you come across any error, howsoever minor, anywhere in the book, do not hesitate to discuss with your teachers while pointing that out to us in no uncertain terms.

We wish you All the Best!

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INTERNATIONAL MATHEMATICS OLYMPIAD (IMO)

Mock Test Paper

1

Total Questions : 50 Time : 1 Hour

I M O

INTERNATIONAL MATHEMATICS OLYMPIAD

PATTERN AND MARKING SCHEME				
Section	**(1) Logical Reasoning**	**(2) Mathematical Reasoning**	**(3) Everyday Mathematics**	**(4) Achievers Section**
No. of Questions	15	20	10	5
Marks per Questions	1	1	1	3

SYLLABUS

Section – 1: Verbal and Non-Verbal Reasoning

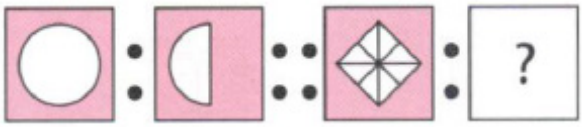
Section – 2: Integers, Fractions and Decimals, Exponents and Powers, Algebraic Expressions, Simple Linear Equations, Lines and Angles, Comparing Quantities, The Triangle and its Properties, Symmetry, Congruence of Triangles, Rational Numbers, Perimeter and Area, Data Handling, Visualizing Solid Shapes, Practical Geometry.

Section – 3: Syllabus as per Section– 2.

Section – 4: Higher Order Thinking Questions – Syllabus as per Section – 2.

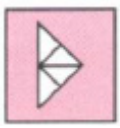
LOGICAL REASONING

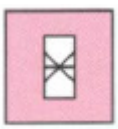
1. There is a certain relationship between the given pair of figures. Identify the relationship and find the missing figure.



(A) 

(B) 

(C) 

(D) 

2. Pointing towards Kanika, Ashish said, "The son of her only brother is the brother of my wife." How is Kanika related to Ashish?
   (A) Mother
   (B) Sister of father-in-law
   (C) Sister
   (D) Maternal Aunt

3. If PAINT is coded as 74128 and EXCEL is coded as 93596, then how would you encode ACCEPT?
   (A) 812356 (B) 124967
   (C) 658942 (D) 455978

4. Vihaan started to walk straight towards south. After walking 5 m he turned to the left and walked 3 m. After this he turned to the right and walked 5 m. Now to which direction Vihaan is facing?
   (A) West
   (B) South
   (C) North
   (D) None of these

5. If the alphabet series is arranged in reverse order, which letter will be twelfth to the left of the fourteenth letter from your left?

(A) T (B) F
(C) Y (D) S

6. If P denotes 'multiplied by', T denotes 'subtracted from', Y denotes 'added to' and Z denotes 'divided by, then find the value of 28Z7P8T6Y4.

(A) 12 (B) 22
(C) 30 (D) 24

7. Select the one which satisfies the same conditions of placement of the dot(s) as in the figure (X).

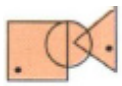
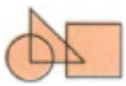
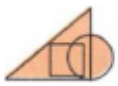
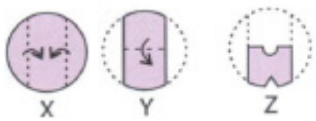


Fig. (X)

(A)  (B) 

(C)  (D) 

8. Choose one figure from the options that resembles the unfolded form of the fig. Z.

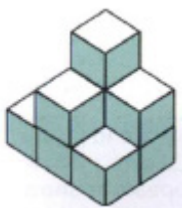


X Y Z

(A)  (B) 

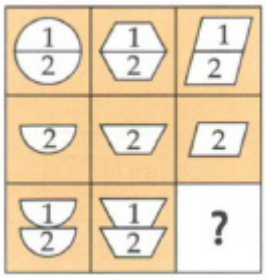
(C)  (D) 

9. Count the number of cubes in the given figure.



(A) 8 (B) 14
(C) 10 (D) 16

10. Find out which figure in given options completes the figure matrix.



(A)  (B) 

(C)  (D) 

11. Fig. (X) is exactly embedded in any one of the options. Find the option which contains fig. (X) as one of its part.



Fig. (X)

(A)  (B) 

(C)  (D) 

12. Choose the correct water image of the given figure (X) from the given options.

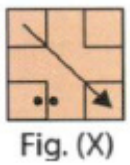
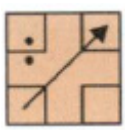


Fig. (X)

(A)  (B) 