The Gen X Series

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

OLYMPIAD SAMPLE PAPERS 4

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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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 : 35 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	10	10	10	5
Marks per Questions	1	1	1	2

SYLLABUS

Section – 1: Patterns, Alphabet Test, Coding-Decoding, Ranking Test, Mirror Images, Geometrical Shapes and Solids, Embedded Figures, Direction Sense Test, Days and Dates & Possible Combinations, Analogy and Classification.

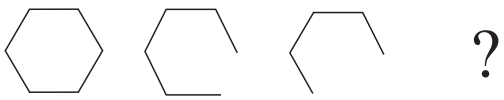
Section – 2: Numerals and Number Names, Number Sense (5-digit numbers), Computation Operations, Fractions, Length, Weight, Capacity, Time, Money, Geometry, Perimeter of Various Shapes, Symmetry, Conversions, Data Handling

Section – 3: The Syllabus of this section will be based on the Syllabus of Mathematical Reasoning.

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

LOGICAL REASONING

1. In the following figures, a pattern is followed. Find the next figure which will continue the series.



(A)  (B) 

(C)  (D) 

2. Choose the musical instrument which is different from others.
   (A) Guitar (B) Sitar
   (C) Violin (D) Piano

3. If  = B,  = C,  = S and  = R, then what is the code for the given figures?



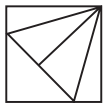
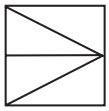
   (A) CRBS (B) RBCS
   (C) BSCR (D) BCSR

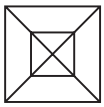
4. Select from the given alternatives the word which cannot be formed using the letters of the given word.
   EDUCATION
   (A) Action (B) Cation
   (C) Neat (D) Nation

5. Identify the figure in which the problem figure (X) is hidden.

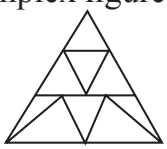


(X)

(A)  (B) 

(C)  (D) 

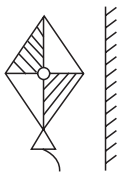
6. Count the number of triangles from the given complex figure.



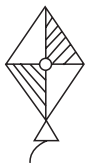
(A) 14 (B) 12

(C) 11 (D) 13

7. Find the mirror image of the following figure (X), when the mirror is placed on the right side.



(X)

(A)  (B) 

(C)  (D) 

8. Natasha drew an arrow pointing towards east.



Which of these arrow is pointing North -East?

(A) 

(B) 

(C) 

(D) 

9. In a row of girls, Neha is ranked 15th from the left end and 20th from the right end. How many girls are there in the row?

(A) 30 (B) 20

(C) 35 (D) 34

10. Find the word from the given alternatives that is related to the third word in the same way as the first two are related to each other.

Coffee: Seeds:: Tea: ?

(A) Strong (B) Hot

(C) Leaves (D) Tree