The Gen X Series

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

OLYMPIAD SAMPLE PAPERS 9

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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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: Number Systems, Polynomials, Coordinate Geometry, Linear Equations in Two Variables, Introduction to Euclid's Geometry, Lines and Angles, Triangles, Quadrilaterals, Areas of Parallelograms and Triangles, Circles, Constructions, Heron's Formula, Surface Areas and Volumes, Statistics, Probability.

Section – 3: The syllabus of this section will be based on the syllabus of Mathematical Reasoning and Quantitative Aptitude.

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

LOGICAL REASONING

1. If the first and the last letters of the word IMPOSSIBLE are interchanged, the second and second last letters are interchanged and so on. Which one out of the following will be the fourth letter from the right end?
   (A) K (B) M
   (C) O (D) None of these

2. If '*a*' stands for '×', '*b*' stands for '÷', '*c*' stands for '–' and '*d*' stands for '+', then what will be the value of the expression (10 *a* 3) *b* (14 *c* 4) *d* (19 *d* 9) ?
   (A) 21 (B) 49
   (C) 13 (D) 31

3. P is shorter than Q who is taller than S. R is shorter than P. R is not as tall as 5.Q is not as tall as T. The shortest one and the tallest one respectively are _____.
   (A) P, E (B) R, P
   (C) R, T (D) Q, R

4. In a certain code language, TRIPPLE is written as SQHOOKD. How is DISPOSE written in that code ?
   (A) ESJKFTP
   (B) DSPABHI
   (C) CHRONRD
   (D) None of these

5. Select the figure from the options which can be formed from the pieces given in Figure (X).

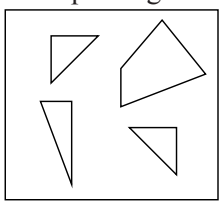
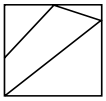
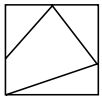
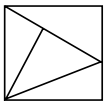
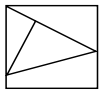


Fig. (X)

(A)  (B) 

(C)  (D) 

6. Choose an alternative figure which has the same conditions of regions in which the dot(s) must be placed as in the given Fig. (X).

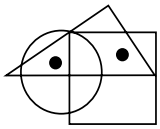
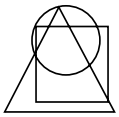
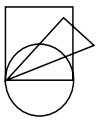
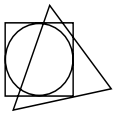
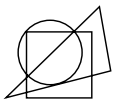
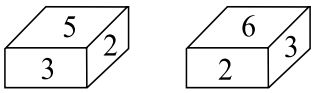


Fig. (X)

(A)  (B) 

(C)  (D) 

7. Two positions of a brick are shown below. When the number 6 will be on the top, then which number will be at the bottom?



(i) (ii)

(A) 1 (B) 5

(C) 2 (D) 4

8. Select a figure from the options that would show the unfolded form of Fig. (X).

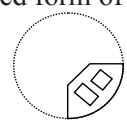
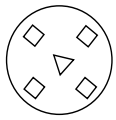
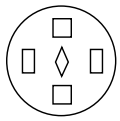
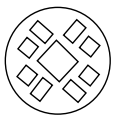
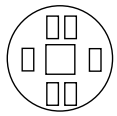
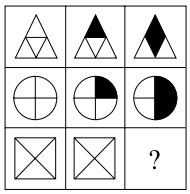


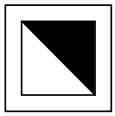
Fig. (X)

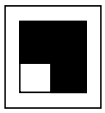
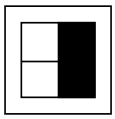
(A)  (B) 

(C)  (D) 

9. Identify the figure that will complete the figure matrix.



(A)  (B) 

(C)  (D) 

10. Select the figure from the options given below in which the given fig. (X) is embedded as one of its part.

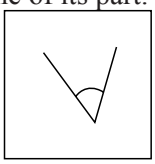
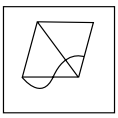


Fig. (X)

(A)  (B) 

(C)  (D) 

11. Choose the mirror image of the given figure (X) from the given alternatives.

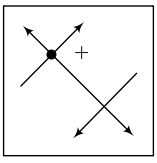


Fig. (X)