Nation's No. 1
INDIAN TALENT OLYMPIAD

SAMPLE PAPER SYLLABUS 2021-22

International Science Olympiad (ISO)
English International Olympiad (EIO)
International Computer Olympiad (ICO)
National Essay Olympiad (NESO)

International Maths Olympiad (IMO)
General Knowledge International Olympiad (GKIO)
International Drawing Olympiad (IDO)
National Social Studies Olympiad (NSSO)

Class **09**

IMO
International Maths Olympiad

Total Questions : 50   **Time : 65 min**

PATTERN & MARKING SCHEME			
Section	Subjective	HOT'S (High Order Thinking Section)	Logical Reasoning
No. of Questions	30	5	15
Marks per Ques.	1	1	1

SYLLABUS

Section - 1 : Number system, Algebraic expression, Linear equation in two variables, Comparing Quantities, Probability & Permutation Combination, Lines and angles, Triangle, Circle, Quadrilateral and its Area, Mensuration, Trigonometry, Data Handing, Logical reasoning, Model Question Paper

Section - 2 : High Order Thinking Section - Syllabus as per Section 1

Section - 3 : Series Completion and Alpha Numeric, Analogy, Classification, Coding and Decoding, Blood Relations, Puzzle Test, Direction Sense Test, Logical Venn Diagrams, Alphabet Test, Ranking, Mathematical Operations
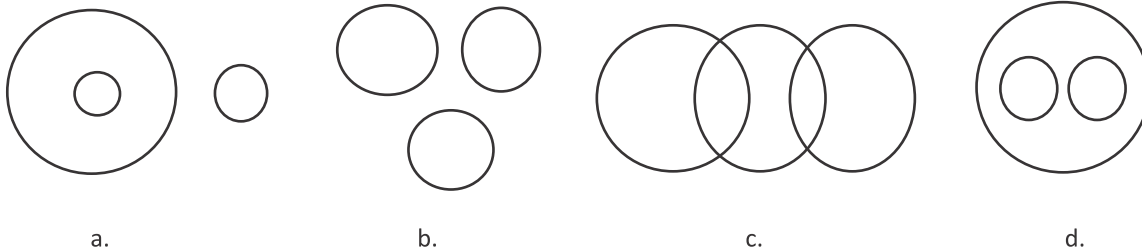
Mathematics

01.   Identify the polynomial whose sum of zeros is (-8) and their product 12.
a. $x^2 - 4x - 16$
b. $x^2 - 2x + 12$
c. $x^2 - 6x + 12$
d. $x^2 + 8x + 12$

02.   Determine the probability of getting an odd number when a die is rolled?
a. 1/6   b. 1/3
c. 4/10   d. 1/2

High Order Thinking Section

03.   The figure given shows a rectangle with semicircle inside it.a.
a. 91 cm²   b. 105 cm²   c. 120 cm²   d. 84 cm²

Logical Reasoning

04.   Select a figure from the options that illustrates the relationship amongst "Crocin, Book, Medicine".

a.   b.   c.   d.

05.   Number series is given in following question. Find out the wrong term from four alternatives given below the series.
8, 15, 22, 29, 35, 43
a. 29   b. 35   c. 15   d. 22

Answer Sheet

International Maths Olympiad : 01 - (d)   02 - (d)   03 - (a)   04 - (a)   05 - (b)