

International Science Olympiad (ISO)

International Maths Olympiad (IMO)

English International Olympiad (EIO)

General Knowledge International Olympiad (GKIO)

International Computer Olympiad (ICO)

International Drawing Olympiad (IDO)

National Essay Olympiad (NESO)

National Social Studies Olympiad (NSSO)

Total Questions : 50

Time : 65 min



International Maths
Olympiad

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 : Rational number, Exponents and powers, Square and square roots, Cube and cube roots, Math Magic, Factorization, Comparing quantities, Direct and indirect proportion, Operation on Algebraic Expressions, Understanding Quadrilateral and Practical Geometry, Mensuration, Data handling, Logical reasoning, Model Question Paper

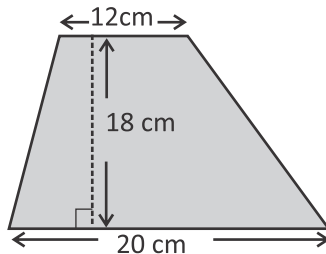
Section - 2 : High Order Thinking Section - Syllabus as per Section 1

Section - 3 : Series Completion and Alphabet Number, Analogy, Coding and Decoding, Blood Relations, Direction Sense, Logical Venn Diagrams, Puzzle, Mathematical Operations, Analytical Reasoning, Mirror and Water Images, Embedded Figures and Figure Formation, Figure Matrix, Ranking

Mathematics

01. Find the number which when added to $\frac{2}{3}$ result in $\frac{40}{41}$.
a. $\frac{4}{17}$ b. $\frac{5}{9}$ c. $\frac{4}{13}$ d. $\frac{2}{17}$
02. Two parallel sides of a trapezium are of lengths 12 cm and 20 cm respectively, and the distance between them is 18 cm. Find the area of the trapezium.

- a. 288 cm^2
b. 328 cm^2
c. 242 cm^2
d. 265 cm^2



High Order Thinking Section

03. Megha purchased 10 dozens of pens at the rate of Rs.210 per dozen. She sold each one of them at the rate of Rs. 12. What was her percentage profit?
a. 30.05 b. 34.25 c. 31.42 d. 40

Logical Reasoning

04. Select the correct set of symbols which fill in the blank spaces of $3 _ 14 _ 2 _ 2 = 23$
a. $X + -$ b. $+ - \div$ c. $X \div +$ d. $+ X$
05. Pointing to a man in the photograph, Shilpa said, 'His father's daughter is my sister,' How is Shilpa related to the man?
a. Mother b. Daughter c. Aunt d. Daughter-in-law

Answer Sheet

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