

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 :** Real number, Arithmetic progression, Polynomials, Quadratic equations, Probability & Permutation Combination, Co-ordinate Geometry, Triangles, Circle and its Area, Quadrilateral and its Area, Mensuration, Trigonometry, Data Handling, Logical reasoning, Model Question Paper

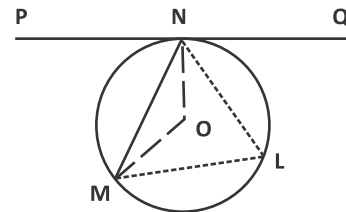
**Section - 2 :** High Order Thinking Section - Syllabus as per Section 1

**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. Three numbers are in the ratio 1 : 2 : 3 and their HCF is 16. The numbers are:  
 a. 6, 12, 24                      b. 5, 10, 15                      c. 16, 32, 48                      d. 8, 16, 24

02. A tangent PQ, touches a circle at N. MN is a chord such that angle MNQ = 55°. Find angle MNO, where O is the centre of the circle.  
 a. 90°  
 b. 110°  
 c. 125°  
 d. 105°



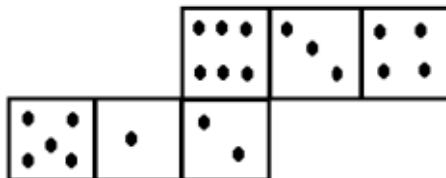
**High Order Thinking Section**

03. If each side of a square is decreased by 30%, find the percentage change in its area.  
 a. 51%                      b. 35%                      c. 60%                      d. 55%

**Logical Reasoning**

04. How many dots lie opposite to the face having two dots, when the given figure is folded to form a cube?

- a. 4  
 b. 3  
 c. 5  
 d. 6



05. In the following question, rearrange the letters of given word in the alphabetical order. Choose the correct order and select the correct option.  
 CYLINDER  
 a. CEDILNRY                      b. EDILRNY                      c. CEDNRYIL                      d. CDELINRY

**Answer Sheet**

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