IMO
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 Handing, Logical reasoning, Model Question Paper
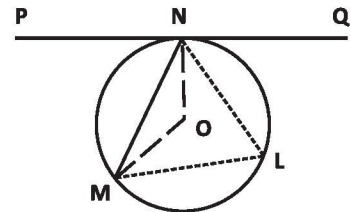
Section - 2 : High Order Thinking Question - Syllabus as per Section 1

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.
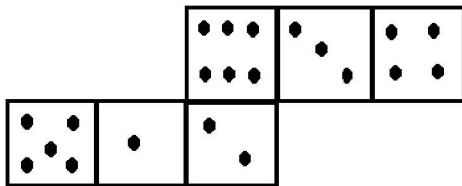a. 90°
b. 110°
c. 125°
d. 105°

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