

For JMO Participating Students.

Revised Syllabus (VII/VIII)

Details of JMO New Topics.

Geometry Part I

- 1] Congruence of Triangles – (SAS, SSS, HS, ASA Tests)
- 2] Parallel straight lines-
- 3] Some Properties of a triangle. (concurrent)
- 4] Similar Triangle. (Theorems) (SSS, SAS, Pythagoras)

Geometry Part II

- 1] Geometry of Circles. (Theorems)
- 2] Tangents (Theorems)
- 3] Properties of Triangles. i) The Circumcentre and sine & cosine rules.
ii) Heron's formula

Sets, Relations & Function.

- I] Sets- i) Representation of Set, (Two methods)
ii) Types of Sets- Empty set, Singleton set, Subset, Equal sets, Universal Set.
iii) Operations on sets – Union, Intersection, Difference of sets.
iv) Complement of set, De Morgan's Law, Equivalent sets.
v) Important Result & Venn diagrams.
- II] Relations-Definition Cartesian product $A \times B$. & Relation, image, Preimage, ordered pairs, Domain, co-domain & range.

III] Functions –Definition- Representation, equation, order pairs

Types- Polynomial functions; Rational
function; Operations on Functions –
Sum, Difference product, Quotient,
scalar, Composite Inverse
Real valued Function.
Domain Range of Function.

Students Should referred 11th Std Books Of CBSE Board for this
topics.

IME

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