Economics (Major) Admission Test (2013) syllabus

Mathematics: 70 Marks (MCQ)
English: 30 marks (Essay)

Mathematics Syllabus

ALGEBRA

Laws of Indices, Surds, Complex Numbers, AP,GP,HP, Theory of Quadratic Equation, Permutation and Combination, Logarithm, Probability, Mathematical Induction, Binomial Theorem, Infinite Series, Determinant, Matrix.

TRIGONOMETRY

Trigonometrical Ratios of Positive Acute angles & Associated Angles, Compound Angles, Transformations of Sums and Products, Multiple Angles, Trigonometrical Ratios of Submultiple Angles, Trigonometrical Identities, General Solution of Trogonometrical Equations, Inverse Circular Functions, Properties of Triangles.

CO-ORDINATE GEOMETRY

Rectangular Cartesian Co-ordinates, Locus, Straight Line, Circle, Parabola, Ellipse, Hyperbola

VECTOR

SET, RELATION & MAPPING

Set theory, Relation and Mapping.

DIFFERENTIAL CALCULUS

Functions of Real Variable, Limit, Continuity, Differentiation

INTEGRAL CALCULUS

Indefinite Integral, Method of Substitution, Integration by Parts, Integrals of Some Special Form of Functions, Definite Integral

DIFFERENTIAL EQUATION

Order and Degree of Differential Equation, Differential Equations of the First Order and First Degree , Linear Second Order Differential Equations with constant coefficients

APPLICATION OF CALCULUS

Significance of Derivative, Tangent and Normal, Maxima & Minima, Definite Integral as an Area, Velocity and Acceleration, Motion along a Straight Line with Uniform Acceleration, Vertical Motion under Gravity

English Syllabus

A standard essay is to be written in English