

TEST CODE: DST (MCQ) 2018
SYLLABUS

Algebra: Arithmetic, Geometric and Power series, sequences. Permutations and combinations. Binomial theorem. Theory of quadratic equations. Inequalities. Complex numbers. Elementary set theory and functions. Vectors and matrices. Determinant, rank and inverse of a matrix. Solutions of linear equations.

Coordinate geometry: Straight lines, circles, parabolas, ellipses and hyperbolas.

Calculus: Taylor and Maclaurin series. Limits and continuity of functions of one real variable. Differentiation and integration of functions of one real variable with applications. Definite integrals. Areas using integrals. Maxima and minima and their applications.