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GROUP B
Mathematics
(B.Sc. Honours level)

In addition to the syllabus for Mathematics in Group A, the syllabus includes:

Calculus and real analysis – real numbers, basic properties, convergence of sequences and series, limits, continuity, uniform continuity of functions, differentiability of functions of one or more variables and applications. Infinite integral, fundamental theorem of Calculus, Riemann integration, improper integrals, double and multiple integrals and applications. Sequences and series of functions, uniform convergence.

Linear algebra – vector spaces and linear transformations; matrices and systems of linear equations, characteristic roots and characteristic vectors, Cayley-Hamilton theorem, canonical forms, quadratic forms.

Graph Theory – connectedness, trees, vertex coloring, planar graphs, Eulerian graphs, Hamiltonian graphs, digraphs and tournaments.

Abstract algebra – groups, subgroups, cosets, Lagrange's theorem, normal subgroups and quotient groups, permutation groups, rings, subrings, ideals, integral domains, fields, characteristics of a field, polynomial rings, unique factorisation domains, field extensions, finite fields.

Differential equations – solutions of ordinary and partial differential equations and applications.

Statistics
(B.Sc. Honours level)

Notions of sample space and probability, combinatorial probability, conditional probability, Bayes' theorem and independence, random variable and expectations, moments, standard univariate discrete and continuous distributions, sampling distribution of statistics based on normal samples, central limit theorem, approximation of binomial to normal, Poisson law, multinomial, bivariate normal and multivariate normal distributions.

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