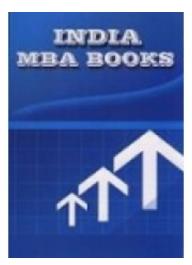
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**UNIT-II:Matrix Algebra** - Definition, types of matrices, Scalar Multiplication of Matrix, Equating of Matrices, Matrix operations: Addition, Subtraction and Multiplication; Transpose of Matrix, Determinant of matrix, Inverse of Matrix, Solving of Equations by Cramer?s Rule, Matrix Inversion method, Rank of Matrix.

**UNIT-III:Elementary Calculus -** Differentiation: Definition, rules of differentiation, logarithmic differentiation, partial differentiation of first and second order, maxima & minima. Integration: Definition, some standard rules of integration, integration by substitution, integration by parts.

**UNIT-IV:Application of Calculus** - Elasticity of demand, Average revenue, Marginal revenue, Average cost, Marginal cost, Total cost, Consumer?s surplus, Supply curve of short period and long period in perfect competition, Maximum revenue, Minimum Cost, Maxima & Minima in perfect competition and monopoly, Effects of taxation and subsidy on monopoly.

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