

UNIT I

Chapter 1 : Matrices 1-1 to 1-53

Syllabus :

- 1.1 Concept of Matrix
- 1.2 Types of Matrices
- 1.3 Addition, Subtraction and multiplication by scalar of matrices
- 1.4 Product of two matrices
- 1.5 Adjoint and Inverse of a matrix of order 2X2 and 3X3.
- 1.6 Solution of Simultaneous linear equations of two variables.

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- 2.2 Working rules: Sum, Product, Division
- 2.3 Chain Rule
- 2.4 Derivative of Implicit functions
- 2.5 Derivative of Parametric functions
- 2.6 Logarithmic Differentiation
- 2.7 Successive Differentiation up to second order
- 2.8 Applications : Velocity, Acceleration, Maxima & Minima of given simple functions.

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