

MATHEMATICS (Science)

SI No.	Chapter	Focus area
1	RELATIONS AND FUNCTIONS	1.2 Types of Relations 1.3 Types of Functions 1.4 Composition of Functions and Invertible Function
2	INVERSE• TRIGONOMETRIC• FUNCTIONS	2.3 Properties of Inverse Trigonometric Functions
3	MATRICES	3.2 Matrix 3.3 Types of Matrices 3.4 Operations on Matrices 3.5 Transpose of a Matrix 3.6 Symmetric and Skew Symmetric Matrices
4	DETERMINANTS	4.2 Determinant 4.3 Properties of Determinants 4.5 Minors and Cofactors 4.6 Adjoint and Inverse of a Matrix 4.7 Applications of Determinants and Matrices
5	CONTINUITY AND• DIFFERENTIABILITY	5.2 Continuity 5.3 Differentiability 5.6 Derivatives of Functions in Parametric Forms 5.8 Mean Value Theorem
6	APPLICATION OF• DERIVATIVES	6.2 Rate of Change of Quantities 6.3 Increasing and Decreasing Functions 6.4 Tangents and Normals 6.6 Maxima and Minima
7	INTEGRALS	7.3.1 Integration by substitution 7.4 Integrals of Some Particular Functions 7.5 Integration by Partial Fractions 7.6 Integration by parts and 7.6.1 7.9 Evaluation of Definite Integrals by Substitution 7.10 Some Properties of Definite Integrals
8	APPLICATION OF• INTEGRALS	8.2 Area under Simple Curves
9	DIFFERENTIAL• EQUATIONS	9.2 Basic Concepts 9.4 Formation of a Differential Equation whose General•Solution is given 9.5.1 Differential equations with variables separable 9.5.3 Linear differential equations
10	VECTOR•ALGEBRA	10.4 Addition of Vectors 10.5 Multiplication of a Vector by a Scalar 10.6 Product of Two Vectors
11	THREE• DIMENSIONAL• GEOMETRY	11.3 Equation of a Line in Space 11.5.1 Distance between skew lines 11.6.2 Equation of a plane perpendicular to a given vector•and passing through a given point 11.6.3 Three point form
12	LINEAR• PROGRAMMING	12.2 Linear Programming Problem and its Mathematical• Formulation
13	PROBABILITY	13.2 Conditional Probability 13.4 Independent Events 13.5 Bayes' Theorem