

MATHEMATICS

1. SETS AND FUNCTIONS

- 1.1 Introduction
- 1.2 Sets
- 1.3 Operation on Sets
- 1.4 Properties of Set Operations
- 1.5 De Morgan's Laws
- 1.6 Cardinality of Sets
- 1.7 Relations
- 1.8 Functions

2. SEQUENCES AND SERIES OF REAL NUMBERS

- 2.1 Introduction
- 2.2 Sequences
- 2.3 Arithmetic Sequence
- 2.4 Geometric Sequence
- 2.5 Series

3. ALGEBRA

- 3.1 Introduction
- 3.2 System of Linear Equations in Two Unknowns
- 3.3 Quadratic Polynomials
- 3.4 Synthetic Division
- 3.5 Greatest Common Divisor and Least Common Multiple
- 3.6 Rational Expressions
- 3.7 Square Root
- 3.8 Quadratic Equations

4. MATRICES

- 4.1 Introduction
- 4.2 Formation of Matrices
- 4.3 Types of Matrices
- 4.4 Operation on Matrices

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- 4.5 Properties of Matrix Addition
- 4.6 Multiplication of Matrices
- 4.7 Properties of Matrix Multiplication

5. COORDINATE GEOMETRY

- 5.1 Introduction
- 5.2 Section Formula
- 5.3 Area of a Triangle
- 5.4 Collinearity of Three Points
- 5.5 Area of Quadrilateral
- 5.6 Straight Lines
- 5.7 General Forms of Equation of a Straight Line

6. GEOMETRY

- 6.1 Introduction
- 6.2 Basic Proportionality and Angle Bisector Theorems
- 6.3 Similar Triangles
- 6.4 Circles and Tangents

7. TRIGONOMETRY

- 7.1 Introduction
- 7.2 Trigonometric Identities
- 7.3 Heights and Distances

8. MENSURATION

- 8.1 Introduction
- 8.2 Surface Area
- 8.3 Volume
- 8.4 Combination of Solids

9. PRACTICAL GEOMETRY

- 9.1 Introduction
- 9.2 Construction of Tangents to a Circle
- 9.3 Construction of Triangles

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9.4 Construction of Cyclic Quadrilaterals

10.GRAPHS

- 10.1 Introduction
- 10.2 Quadratic Graphs
- 10.3 Some special Graphs

11. STATISTICS

- 11.1 Introduction
- 11.2 Measures of Dispersion

12.PROBABILITY

- 12.1 Introduction
- 12.2 Classical Definition of Probability
- 12.3 Addition theorem on Probability