TERM-I

1. THEORY OF SETS

1.1 Introduction
1.2 Description of Sets
1.3 Representation of a Set
1.4 Different kinds of Sets
1.5 Set Operations
1.6 Representation of Set Operations using Venn Diagram

2. REAL NUMBER SYSTEM

2.1 Introduction
2.2 Decimal Representation of Rational Numbers
2.3 Irrational Numbers
2.4 Real Numbers

3. ALGEBRA

3.1 Introduction
3.2 Algebraic Expressions
3.3 Polynomials
3.4 Remainder Theorem
3.5 Factor Theorem

4. GEOMETRY

4.1 Introduction
4.2 Geometry Basics
4.3 Quadrilateral
4.4 Parallelograms

5. COORDINATE GEOMETRY

5.1 Introduction
5.2 Cartesian Coordinate System
5.3 Distance between any Two Points

6. PRACTICAL GEOMETRY

6.1 Introduction

6.2 Special Line Segments within Triangles
6.3 The Points of Concurrency of a Triangle

TERM-II

1. ALGEBRA

1.1 Introduction
1.2 Algebraic Identities
1.3 Factorization of Polynomials
1.4 Linear Equations
1.5 Linear Equations in one Variable

2. TRIGONOMETRY

2.1 Introduction
2.2 Trigonometric Ratios
2.3 Trigonometric Ratios of Some Special Angles
2.4 Trigonometric Ratios of Complementary Angles
2.5 Method of using Trigonometric Table

3. STATISTICS

3.1 Introduction
3.2 Graphical Representation of Frequency Distribution
3.3 Mean
3.4 Median
3.5 Mode

4. PRACTICAL GEOMETRY

4.1 Introduction
4.2 Special Line Segments within Triangles
4.3 The points of Concurrency of a Triangle

TERM-III

1. REAL NUMBER SYSTEM

1.1 Introduction
1.2 Surds
1.3 Four Basic Operations on Surds
1.4 Rationalization of Surds
1.5 Division Algorithm

2. SCIENTIFIC NOTATIONS OF REAL NUMBERS AND LOGARITHMS

2.1 Scientific Notation
2.2 Converting Scientific Notation to Decimal Form
2.3 Logarithms
2.4 Common Logarithms
2.5 Base System

3. GEOMETRY

3.1 Introduction
3.2 Circles

4. MENSURATION

4.1 Introduction
4.2 Sectors
4.3 Cubes
4.4 Cuboids

5. PROBABILITY

5.1 Introduction
5.2 Basic Concepts and Definitions
5.3 Classification of Probability
5.4 Probability – An Empirical Approach

6. GRAPHS

6.1 Introduction
6.2 Linear Graph
6.3 Application of Graphs