**GENERAL MATHEMATICS**

**For Class-IX (75 Marks)**

**1. PERCENTAGE, RATIO AND PROPORTION**

 1.1 Percentage

 1.2 Ratio

 1.3 Proportion

 1.4 Compound Proportion

**2. ZAKAT, USHR AND INHERITANCE**

 2.1 Zakat

 2.2 Ushr

 2.3 Inheritance

**3. BUSINESS MATHEMATICS**

 3.1 Profit and Loss

 3.2 Discount

 3.3 Business Partnership

**4. FINANCIAL MATHEMATICS**

 4.1 Commercial Banking

 4.2 Exchange of Currencies

 4.3 Profit/Markup

 4.4 Insurance

 4.5 Leasing/Financing

**5. CONSUMER MATHEMATICS**

 5.1 Taxes

 5.2 Utility Bills

 5.3 Personal Income

**6. EXPONENTS AND LOGARITHMS**

 6.1 Radicals and Radicands

 6.2 Laws of Exponents/indices

 6.3 Scientific Notation

 6.4 Logarithm

 6.5 Laws of Logarithm

 6.6 Application of Logarithm

**7. ARITHMETIC AND GEOMETRIC SEQUENCES**

 7.1 Sequence

 7.2 Arithmetic Sequence

 7.3 Arithmetic Mean

 7.4 Geometric Sequence

 7.5 Geometric Mean

**8. SETS AND FUNCTIONS**

 8.1 Set

 8.1.1 Operations on Sets

 8.1.2 Properties of Union and intersection

 8.1.3 Venn Diagram

 8.2 Binary Relation

 8.3 Function

**9. LINEAR GRAPHS**

 9.1 Cartesian Plane and Linear Graphs

 9.2 Conversion Graphs

**10. BASIC STATISTICS**

 10.1 Frequency Distribution

 10.2 Cumulative Frequency

 10.3 Measure of Central Tendency

 10.4 Measures of Dispersion