

PAPER I : BUSINESS MATHEMATICS AND STATISTICS.

CHAPTER:

1. LOGARITHMS -Definition, Common Logarithms, Characteristics and Mantissa, Anti Logarithms.
2. SIMPLE INTEREST: Payment by Installment - True Discount and Banker's Discount, Equated Due Date.
3. Compound Interest And Annuities - Formula For the Fraction of a Period - Interest Payable Half Yearly or Quarterly - Numerical Rate And Effective Rates of Interest - Annuities, Amount of An Immediate Annuity, Sinking Fund, Present Value of Annuity, Present Value of Deferred Annuity - Lease Hold And Free Hold Assets.
4. INTRODUCTION, Definition, Functions, Scope and Limitations of Statistics.
5. COLLECTION OF DATA- Primary, Secondary - Methods of Collection. Questionnaire - Classification and Tabulation. Diagramic Representation- Bar Diagrams, Pic-Diagrams, Histogram, Frequency Polygon.
6. MEASURES OF CENTRAL VALUE - Mean, Median, Mode, Geometric Mean, Harmonic Mean - Computation, Limitations.
7. MEASURES OF DISPERSION- Range, Mean Deviation, Standard Deviation, Coefficient Of Variation, Variance.
8. CORRELATION ANALYSIS-Karl Pearsons, Spearman's, Concurrent Deviation Method. Regression Analysis, Linear Regression Equations.
9. INDEX NUMBERS- Construction of Index Numbers, Methods-Laspeyers, Paasches, Fishers. Consumer Price Index Numbers.
10. Time Series, Trend, Secular, Seasonal, Cyclical, Irregular Variations. Methods of Calculation of Trend, Moving Averages And Second Degree Parabola.

BOOKS FOR STUDY AND REFERENCE:

1. BUSINESS MATHEMATICS- D.C.SANCHETI AND V.K.KAPOOR.
2. BUSINESS MATHEMATICS - RAJMOHAN
3. STATISTICAL METHODS- S.P.GUPTA.
4. FUNDAMENTALS OF STATISTICS-ELHANCE .D.N AND VEENA ELHANCE.
5. BUSINESS STATISTICS- INDRA GUPTA AND S.C. GUPTA.