

B. Com. – II

Group 'E'

Paper No. IX: Business Statistics

1. Introduction: Meaning, Importance and Limitation; Collection, Classification, Tabulation and Presentation of Data.
2. Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean, Relation between averages.
3. Measures of Dispersion: Range Method, Mean Deviation, Standard Deviation, Coefficient of Variation, Quartile Deviation.
4. Measures of Skewness: Karl Pearson's Coefficient of Skewness, Bowley's Coefficient of Skewness.
5. Correlation: Graphic and Scatter diagram method, Karl Pearson's Coefficient of Correlation, Spearman's rank Correlation Coefficient.
6. Analysis of Time Series: Moving average method, Least Square Method, Seasonal Variations, Irregular Fluctuations.
7. Index Number: Un-weighted Index number, Changing and Shifting of Base, Weighted Index number, Cost of living Index Number, Fisher's Ideal Index Number, Reversibility Tests.
8. Interpolation: Parabolic Curve method, Newton's method, Binomial expansion method, Lagrange's method.
9. Probability: Classical and Axiomatic definitions, Addition theorem, Multiplication theorem (elementary problems only).
10. Theoretical Normal Distribution.
11. Sampling: Small and Large sample tests, t distributions.