

STATISTICS - I BSc - Semester IPaper - I - Descriptive StatisticsImportant QuestionsCentral TendencyUnit - 1: (i) Introduction to Statistics (ii) Measures of

- 1) Explain primary and Secondary data with merits and de-merits.
- 2) Importance and Scope of Statistics
- 3) Explain all the measures of Central Tendency
- 4) pie-chart with example
- 5) Frequency polygon

— problems in Mean, Median, Mode, GM, HM. —

Unit - 2: Measures of Dispersion

- 1) Explain all the measures of Dispersion
- 2) Sheppard's Correction
- 3) Relation between Central and Non-central moments
- 4) Skewness
- 5) Kurtosis

— problems in Moments, M.D, Q.D, S.D. —

Unit - 3: (i) Curve Fitting & (ii) Correlation

- 1) Fitting of Straight line, Second degree parabola, power curve and exponential curve

— And problems in all of the above —

- 2) Scatter diagram
- 3) Define Karl Pearson's co-efficient of correlation and explain its properties.
- 4) Derive the formula for Rank Correlation co-efficient
- 5) partial correlation
- 6) Multiple Correlation
- 7) Correlation Ratio

— Problems in both Karl Pearson's and Rank Correlation —

Unit-4: Regression

- 1) properties of Regression co-efficients
- 2) Regression lines (X on Y and Y on X)
- 3) Correlation vs Regression

— All model problems in Regression —

Unit-5: Attributes

- 1) Consistency of data and Conditions for consistency
- 2) Independence of Attributes.
- 3) Association of Attributes
- 4) Yule's co-eff of Association and Colligation.
- 5) Relationship between association and colligation

$$Q = \frac{2Y}{1+Y^2}$$

- 6) Define: class, order of class frequencies, Ultimate class frequencies.

— All model problems in attributes —