(f) The Research Report - Writing and Evaluation.

Second Half: Educational Statistics

# Unit-IV: Educational Data and Descriptive Statistics

- (a) Nature of educational data Qualitative and Quantitative;
- (b) Qualitative data its analysis with emphasis on Content Analysis, Analyses of Interview-based and Observation-based data;
- (c) Quantitative data Scales of measurement Nominal, Ordinal, Interval and Ratio;
- (d) Organization and Graphical Representation of Data Frequency distribution, Frequency Polygon, Histogram, Ogive and Pie-chart;
- (e) Measures of Central Tendencies Mean, Median and Mode;
- (f) Measures of Variability Range, Mean Deviation, Quartile Deviation and Standard Deviation;
- (g) Measures of relative position Percentile, Percentile Rank, and Standard Scores.

### Unit-V: Probability Distribution

(a) Concept, Characteristics and uses of Normal Distribution;

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- (b) Measures of Relationship Concept and uses of Correlation — Product Moment, Rank Difference and Scatter Diagram Methods;
- (c) Further Methods of Correlation Biserial, Point-Biserial, Tetrachoric and Phi-Coefficient of Correlations;
- (d) Concept of Partial and Multiple Correlations, Concept of Regression and Prediction, and Regression Equation.

### Unit-VI: Inferential Statistics

(a) Parametric Statistics – Tests of significance — One-tailed and Two-tailed tests, Type-I and Type-II Errors, Analyses of Variance and Analyses of Co-variance;

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(b) Non-Parametric Statistics – Chi-square test and Median Test.

### PART - II

## Paper V: Comparative Education

#### Objectives:

- To help the students to understand comparative education as an emerging discipline of Education;
- To acquaint the students with educational systems in terms of factors and approaches of Comparative Education;