

DESCRIPTIVE STATISTICS

Time: 3 Hours

Maximum Marks: 50

PART-A

Answer ANY FOUR questions. Each question carries TEN marks

(4 x10 = 40)

- I. Define statistics and discuss its origin, functions and limitations.
- II. "There is hardly any field which does not fall within the scope of statistics"-Comment.
- III. Distinguish between classification and tabulation of data. Briefly explain different types of classification. Also explain different parts of a statistical table.
- IV. What do you understand by statistical survey? Explain briefly the various stages subsequent to planning the survey.
- V. Compare different methods adopted by a researcher to collect primary data. What are the points should be considered while drafting a questionnaire?
- VI. Write short notes on ANY TWO of the following:
 - (a). Coefficient of variation
 - (b). Correlation
 - (c). Measures of central tendency

PART-B

Answer ANY TWO of the following. Each question carries FIVE marks.

(2x5 = 10)

- VII. Calculate coefficient of skewness from the following data by the Karl Pearson's method.

| | | | | | | | | |
|----------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wages (Rs) | More than 0 | More than 10 | More than 20 | More than 30 | More than 40 | More than 50 | More than 60 | More than 70 |
| No. of workers | 100 | 90 | 75 | 50 | 25 | 15 | 5 | 0 |

- VIII. Quotation of index numbers of equity share price of certain joint stock company and prices of preferences share are given below. Using rank correlation method to determine the relationship between equity share and preference share prices.

| | | | | | | | |
|-------------------------|------|------|------|------|------|------|------|
| Year | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 |
| Equity Share | 97.5 | 99.4 | 90.6 | 96.2 | 95.1 | 98.4 | 97.1 |
| Preference share prices | 75.1 | 75.9 | 77.1 | 78.2 | 79.0 | 74.8 | 70.1 |

- IX. From the following data determine who is more consistent?

| | | | | | | | | | | |
|----------|----|----|----|----|----|----|----|----|----|----|
| Player A | 55 | 56 | 57 | 58 | 59 | 95 | 85 | 75 | 65 | 55 |
| Player B | 45 | 65 | 47 | 69 | 59 | 95 | 95 | 85 | 45 | 54 |
