

Unit-III

- Discuss the meaning, types of significance of correlation. What is the difference between Karl Pearson's Correlation Co-efficient and Spearman's Correlation Co-efficient.
- From 10 observations of Price (X) and Supply (Y) of a commodity, the following figures were obtained.

$$\Sigma X = 130, \Sigma Y = 220, \Sigma X^2 = 2288, \Sigma Y^2 = 5506, \text{ and } \Sigma XY = 3467.$$

Obtain the two regression equations from the above figures.

Unit-IV

- From the following data, compute Laspeyres's Paasche's, Marshall-Edgeworth and Fisher's Price Index number.

| Commodity | P_0 | q_0 | P_1 | q_1 |
|-----------|-------|-------|-------|-------|
| A | 8 | 25 | 65 | 30 |
| B | 20 | 70 | 30 | 55 |
| C | 5 | 16 | 20 | 45 |
| D | 10 | 36 | 15 | 20 |
| E | 27 | 80 | 10 | 60 |

Section-B

Unit-I

- "Statistics affects everybody and touches life at many points." Explain the statement.
- Difference between classification and tabulation. Discuss the parts of table and types of table with suitable example.
- Calculate mean, median and mode from the following data :

| Class | Frequency |
|-------|-----------|
| 20-24 | 3 |
| 25-29 | 5 |
| 30-34 | 10 |
| 35-39 | 20 |
| 40-44 | 12 |
| 45-49 | 6 |
| 50-54 | 3 |
| 55-59 | 1 |

- Describe various measures of variation ? Which is the most widely used measure and why ?

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9. Explain the use of time series in business forecasting and its limitations. Describe the components of a time series.

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BUSINESS STATISTICS

Paper-BBAN-206

Time allowed : 3 hours [Maximum marks : 80]

Note : This paper consists of two Sections (Section-A and B). Section-A is compulsory and carrying questions of two marks each while Section-B consists of eight questions of sixteen marks each. The student shall be required to attempt four questions from Section-B selecting one question from each unit. All questions carry equal marks.

Section-A

- I. Write short notes on the following :
- Objectives of Classification
 - Pie diagram
 - Harmonic mean of two numbers a and b.
 - Co-efficient of variation
 - Co-efficient of determination
 - Positive and negative correlation
 - Calculating growth rate in time series
 - Value Index numbers

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[P.T.O.]