

BUSINESS STATISTICS : 2007

(Old and New Course - 108)

UNIT - 1

1. Explain important functions, scope and limitations of Statistics.

OR

The following data relate to sales in five firms. Use a suitable bar diagram to represent the data :

| Firm | A | B | C | D | E |
|---------------------|----|----|-----|-----|----|
| Sales (in lakh Rs.) | 25 | 38 | 300 | 200 | 56 |

UNIT - 2

2. What are various measures of central tendency ? Explain each of them.

OR

Determine the modal value in the following series :

| | | | | | | | | | | | | |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|
| Value | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 |
| Frequency | 7 | 15 | 21 | 38 | 34 | 34 | 11 | 19 | 10 | 38 | 5 | 2 |

UNIT - 3

3. Define Standard Variation. State the properties of standard variation.

OR

What is coefficient of variation ? What purpose does it serve ?

Compute the coefficient of variations for factory A and B from the ahead :

| Daily Wages | Workers in Factory | |
|-------------|--------------------|----|
| | A | B |
| 12 | 5 | 15 |
| 15 | 10 | 25 |
| 17 | 20 | 30 |
| 22 | 35 | 35 |
| 25 | 12 | 21 |
| 30 | 8 | 19 |

UNIT - 4

4. What is meant by correlation ? Discuss the properties of Karl Pearson's coefficient of correlation.

OR

Calculate the coefficient of correlation by Karl Pearson's method from the following data relating to overhead expenses and the cost of production :

| | | | | | | | | | |
|-------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|
| Overheads (in '000 Rs.) | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| Cost (in '000 Rs.) | 15 | 15 | 16 | 19 | 17 | 18 | 16 | 18 | 19 |

UNIT - 5

5. What are index numbers ? Discuss their uses and limitations.

OR

What is time series ? What are its main components ?

How would study the seasonal variations in any time series?

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