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DCBB303

Reg. No.

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III Semester B.B.A. (Regular) Degree Examination, December/January - 2025/26

**BUSINESS ADMINISTRATION**

**Statistics for Business Decision**

(NEP Scheme Repeaters)

Paper : BBH 3.3

Time : 2½ Hours

Maximum Marks : 60

**Instructions to Candidates:**

All the Answers should be written in English only.

**SECTION - A**

Answer any FIVE of the following questions. Each question carries 2 marks. (5×2=10)

1. a) What is Statistics?
- b) What do you mean by classification of data?
- c) What is Time Series?
- d) Give the meaning of Correlation.
- e) What do you mean by Regression?
- f) Write the formula of Karl Pearson's coefficient of skewness.
- g) Mention two limitations of Statistics.



**SECTION - B**

Answer any FOUR of the following questions. Each question carries 5 marks.

(4×5=20)

2. List out any five functions of Statistics.
3. Find the likely sales when advertising expenditure is 25 crores.

	Advertising expenditure (Crores)	Sales (Crores)
Mean ( $\bar{X}$ )	20	120
Std. deviation ( $\sigma$ )	5	25
Correlation		0.8

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4. Calculate the Mode for the following data

X (Values) More than :	0	10	20	30	40
Frequency :	100	80	75	60	25

5. From the following marks of 50 students, prepare a frequency table with 10 class intervals (Exclusive series)

Marks of Students : 35, 40, 42, 28, 22, 25, 30, 37, 27, 22, 60, 55, 52, 50, 61, 63, 65, 75, 80, 90, 63, 72, 73, 70, 82, 86, 68, 55, 58, 88, 80, 82, 87, 92, 95, 66, 64, 62, 52, 35, 40, 45, 56, 68, 60, 75, 82, 86, 91, 95.

6. Calculate standard deviation from the following data

X - 63, 45, 74, 80, 56, 39, 76, 98, 19, 50.

### SECTION - C

Answer any TWO of the following questions. Each question carries 12 marks.

(2×12=24)

7. Calculate Mean, Median and Mode for the following data.

X (values) :	10-20	20-30	30-40	40-50	50-60
Frequency :	5	10	6	12	17

8. Compute Karl Pearson's co-efficient of correlation for the following data and also calculate probable error.

Supply (Quadrants) :	30	29	29	25	24	24	21
Price (Rs.) :	11	12	13	14	15	16	18

9. With the help of the following data, calculate the trend values by the method of least square and estimate the sales for the year 2015 and plot the actual values on a graph sheet.

Year :	2008	2009	2010	2011	2012	2013
Sales :	100	105	109	96	102	108

### SECTION - D

Answer any One question carries 6 marks.

(1×6=6)

10. Prepare Time Series Graph showing actual and trend values with imaginary numbers.

11. Prepare blank table mentioning the parts of the tables.