Subject Code: 2871

B. B. A. Sem. II ST -205 - Business Statistics

Time: $2\frac{1}{2}$ Hours

Marks:70

6

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Instructions: 2

- 1. There are FIVE compulsory Questions in this paper. Each question carries 14 marks.
- 2. Statistical tables & Graph Papers will be provided on request.
- 3.Use of scientific calculator is allowed.
- Q-1 (a) Define the following terms.

i. Arithmetic Mean ii. Median iii. Standard deviation

(b) Find Mean, Mean deviation, standard deviation, quartiles Q₃ from the following data.

Number of days of Students absent	0 - 4	4 - 8	8 - 12	12 - 16	16 - 20	20 - 24
Number of Students	5	- 50	100	60	20	15

OR

Q-1 (a) Define the following terms.

i. Weighted Mean ii. Mode iii. Coefficient of variation

(b) From the following data compute Variance, quartile Q₁,Deciles D₇,Percentile 8 P₇₉.

Marks	No. of Students
0-10	6
10-20	5
20-30	8
30-40	15
40-50	7
50-60	6
60-70	3

- Q-2 (a) Define correlation coefficient State its important properties.
 - (b) The following data give the ages and blood pressures of woman:

Age(x)56 42 36 47 49 42 72 60 63 Blood Press.(y) 147 125 118 128 145 140 155 160 149

- i. Determine the line of regression of Y on X.
- ii. Find the correlation coefficient between X and Y.
- iii. Estimate the blood pressure of woman whose age is 45 years.

OR

Q-2 (a) Distinguish between Correlation and Regression.

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