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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

MBA I Year I Semester Supplementary Examinations November-2021

BUSINESS STATISTICS FOR MANAGERS

Time: 3 hours

Max. Marks: 60

SECTION – A

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

1 Define Statistics. Explain the significance of Statistics L1 10M

OR

2 a Explain the nature and characteristics of statistics L2 5M

b What are the limitations of the statistics L1 5M

UNIT-II

3 Calculate Mean, Median, and Mode from the following data L4 10M

X	0-10	10-20	20-30	30-40	40-50	50-60
F	10	18	27	32	24	9

OR

4 Determine Standard Deviation for the data below L4 10M

X	0-10	10-20	20-30	30-40	40-50	50-60	60-70
F	2	7	14	18	12	8	4

UNIT-III

5 Explain the terms below L2 10M

i) Primary Data ii) Secondary Data

OR

6 a How data can be classified and tabulated? L3 5M

b Explain different types of Graphs in data representation with an example. L2 5M

UNIT-IV

7 a What is the Meaning of regression analysis? Explain its utilities. L2 5M

b How do you interpret the regression coefficients? Explain 5M

OR

8 The following data relate to the prices and supplies of a commodity during a period of nine years. What is Correlation coefficient? L4 10M

Price (Rs)	40	45	65	75	77	87	69	94	43
Supply(Kg)	30	35	25	25	19	27	38	49	12

UNIT-V

9 Define Hypothesis. Explain the process of hypothesis testing. L2 10M

OR

10 a In an anti-malarial campaign, quinine was administered to 812 persons out of a total population of 3248. The number of fever cases is shown below. L4 10M

Treatment	Fever	No Fever	Total
Quinine	20	792	812
No Quinine	220	2216	2436
Total	240	3008	3248

Discuss the usefulness of Quinine in checking malaria

SECTION – B
(Compulsory Question)

1 x 10 = 10 Marks

11. Draw less than and more than O gives from the data given below.

Profits (lakhs)	No. of Companies
10-20	6
20-30	8
30-40	12
40-50	18
50-60	25
60-70	16
70-80	8
80-90	5
90-100	2

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