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

**MBA I Year I Semester Supplementary Examinations February-2022
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. 10M

OR

2 How computers can be useful for statistical analysis? Explain with example. 10M

UNIT-II

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

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No.of students	10	18	27	32	24	09

OR

4 Calculate Standard Deviation from the following data? 10M

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No.of students	10	18	27	32	24	09

UNIT-III

5 a How Data can be classified and tabulated? 5M

b What are the methods and tools that are available for data classification and tabulation? 5M

OR

6 a Explain different types of Graphs in data representation with an example? 5M

b What are the rules of constructing a questionnaire? 5M

UNIT-IV

7 Calculate correlation coefficient from the following data and interpret the result? 10M

Marks in Statistics(X)	20	35	15	40	10	35	30	25	45	30
Marks in Accounts(Y)	25	30	20	35	20	25	25	35	35	30

OR

8 Calculate Spearman's rank correlation coefficient between marks assigned to 10 students by judges X and Y in a certain competitive test as shown below? 10M

Marks by X	52	53	42	60	45	41	37	38	25	27
Marks by Y	65	68	43	38	77	48	35	30	25	50

UNIT-V

9 Define Hypothesis? Explain the process of hypothesis testing? 10M

OR

10 The life time of electric bulbs for a random sample of 10 from a large consignment gave the following data. 10M

Item	1	2	3	4	5	6	7	8	9	10
Life in '000 hours	4.2	4.6	3.9	4.1	5.2	3.8	3.9	4.3	4.4	5.6

SECTION – B

(Compulsory Question)

11 Explain the procedure involved in solving ANOVA problem.

1 x 10 = 10 Marks

*** END ***