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

MBA I Year I Semester Regular Examinations July-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 various branches related to statistics L2 10M
- OR**
- 2 a Explain functions and scope of the statistics L2 5M
b Explain the applications of statistics L2 5M

UNIT-II

- 3 Calculate Coefficient of Variation from the following data

X	0-10	10-20	20-30	30-40	40-50	50-60	
F	6	9	13	16	10	8	

L4 10M

OR

- 4 Determine Coefficient of Quartile Deviation for the data below

X	0-10	10-20	20-30	30-40	40-50	50-60	60-70	
F	7	8	12	15	6	4	3	

L4 10M

UNIT-III

- 5 a Give a brief explanation about classification and tabulation of data. L3 5M
b What are the methods and tools that are available for data classification and tabulation? Explain in brief. L2 5M
- OR**
- 6 a Elaborate methods of data collection. L2 5M
b What are the rules of constructing a questionnaire? Explain. L2 5M

UNIT-IV

- 7 a Define correlation. Explain different types of correlation. L2 5M
b Explain the difference between correlation and regression. L2 5M

OR

- 8 Obtain the regression equations for the following.

X	8	10	9	7	8	9	6
Y	2	3	4	2	5	4	6

L4 10M

UNIT-V

- 9 Carry out ANOVA two-way classification to the following data.

	Blocks			
Treatment 1	13	7	9	3
Treatment 2	6	6	3	1
Treatment 3	11	5	15	5

L4 10M

OR

- 10 Explain the procedure involved in solving ANOVA problem.
- L2 10M

SECTION – B
(Compulsory Question)

1 x 10 = 10 Marks

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

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

Can we accept the hypothesis that the average life time of bulbs is 4000 hours?

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