Q.P. Code:16MB704

Reg. No:										
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

MBA I Year I Semester Regular & Supplementary Examinations January 2018 STATISTICS FOR MANAGEMENT

Time: 3 hours

SECTION-A

(Answer all Five Units $5 \times 10 = 50$ Marks)

UNIT-I

1Define statistics. Explain objectives and scope of statistics.10M

OR

2 Explain the applications of statistics.

UNIT-II

3 Ex	plain different Measures of Dispersion in detail.
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OR

4 Consider the following distribution. Compute mean, median and mode.

X	0-10	10-20	20-30	30-40	40-50
f	12	18	20	25	23

UNIT-III

5 Discuss various methods and tools for data classification & tabulation. 10M

OR

6 Represent the following data by a histogram

Marks	No. of Students
0-10	8
10-20	12
20-30	22
30-40	35
40-50	40
50-60	60
60-70	52
70-80	40
80-90	30
90-100	5
	•

10M



10M

10M

Max. Marks:60

UNIT-IV

7 In a anti malaria campaign in a certain area, quinine was administrated to 1624 persons out of a total population of 6496. The number of fever cases is shown below:

Treatment	Fever	No fever	Total
Quinine	40	1584	1624
No Quinine	440	4432	4872
Total	480	6016	6496

Discuss the usefulness of quinine in cheking malaria by using chi-square test.

OR

8 10 workers are selected at random from a large number of workers in a factory. The number of items produced by them on a certain day are found to be: 51, 52, 53, 55, 56, 57, 58, 59, 59, 60

In the light of these data, would it be appropriate to suggest that the mean of the number of items produced in the population is 58? (5% value of t for 9 d.f. is 2.262).

UNIT-V

⁹ The following table shows the sales of the ABC company ltd.

Year	2010	2011	2012	2013	2014	2015	2016	2017	
Sales (lakhs)	76	80	130	144	138	120	174	190	
Fit a straight line trend by the method of least squares and estimate the sales of									
2019?				-					

OR

10aExplain the difference between correlation and regression5MbDiscuss the Characteristics and uses of index numbers in detail.5M

SECTION – B

(Compulsory Question)

1 x 10 =10 Marks

11 Case study:

Caluculate Spearman's coefficient of correlation between marks assigned to ten students by judges X and Y in a certain competitive test as shown below:

			•							
	1	2	3	4	5	6	7	8	9	10
Marks by judge X	52	53	42	60	45	41	37	38	25	27
Marks by judge Y	65	68	43	38	77	48	35	30	25	50

*** END ***

10M

10M

10M