R19

Q.P. Code: 19MB9004

Reg. No:

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

MBA I Year I Semester Supplementary Examinations Feb-2021 BUSINESS STATISTICS FOR MANAGERS

Time: 3 hours

Max. Marks: 60

SECTION - A

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

UNIT-I

1 Define statistics. Discuss the applications of statistics in business decision making.

10M

OR

2 Explain the relation of statistics with other disciplines.

10M

UNIT-II

3 Following distribution gives the pattern of overtime work done by 100 employees of a company. Calculate median.

 Overtime Hours
 0-10
 10-20
 20-30
 30-40
 40-50
 50-60

 Number of Employees
 11
 20
 35
 20
 8
 6

OR

4 What do you mean by dispersion? What are the different measures of dispersion?

UNIT-III

5 What are the guiding considerations in the construction of questionnaire? Explain.

10M

10M

OR

6 The following are the figures of sales of two firms A&B for the years 2015 to 2020.

10M

Present the data graphically.

Year	Sales Firm A (in Crores)	Sales Firm B (in Crores)		
2015	100	150		
2016	150	200		
2017	200	200		
2018	350	300		
2019	400	250		
2020	500	400		

UNIT-IV

7 a What is the Meaning of regression analysis?

5M

b Explain utilities of regression.

5M

OR

8 Calculate Spearman's rank correlation coefficient for the following data.

10M

Rank of X	1	4	6	7	8	5	2	3	
Rank of Y	2	4	5	3	7	8	6	1	

UNIT-V

9 a Distinguish between Null hypothesis and alternative hypothesis.

5M

b Explain Type I error and Type II error.

5M

OR

10 Set up an analysis of variance table for the following per acre production data for three varieties of wheat, each grown on 4 plots and state if the variety differences are significant.

10M

Plot of land	Per acre production data					
	Variety of wheat A	Variety of wheat B	Variety of wheat C			
1	6	. 5	5			
2	7	5	4			
3	3	3	3			
4	8	7	4			

SECTION - B

(Compulsory Question)

11 Calculate Standard Deviation and coefficient of SD from the following data and interpret the result.

Score in ODI	25	30	40	35	20	5	15	55	60	40
Score in T20	15	20	25	20	20	30	40	25	10	20

*** END ***