Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MBA I Year I Semester Supplementary Examinations August-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 Discuss the functions and limitations of statistics.   **10M**

OR

2 How the computers can be helpful in making statistical decisions? Explain with an   **10M**
   example.

UNIT-II

3 What are the measures of central tendency? Why are they called measures of   **10M**
   central tendency?

OR

4 Calculate the standard deviation from the following.   **10M**

Age	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Persons	10	25	40	45	40	30	25

UNIT-III

5 Enumerate the different methods of collecting data. Explain its merits and demerits.   **10M**

OR

6 Draw less than and more than Ogives from the data given below.   **10M**

Marks	No. of Students
0-10	3
10-20	7
20-30	7
30-40	8
40-50	15
50-60	18
60-70	17
70-80	12
80-90	9
90-100	4

UNIT-IV

7 Define correlation. Explain different types of correlation?   **10M**

OR

8 Calculate Karl Pearson's coefficient of correlation between expenditure on   **10M**
   advertising (X) and sales (Y) from the data given below:

X	15	22	25	30	33	42	48	50
Y	13	18	20	40	25	35	55	40

UNIT-V

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

OR

10   A sample of 400 male students is found to have a mean height 67.47 inches. Can it   10M
be reasonably regarded as a sample from a large population with mean height 67.39
inches and standard deviation 1.30 inches? Test at 5% level of significance.

SECTION – B

(Compulsory Question)

11   **1 x 10 = 10** Marks

The following table gives the ages and blood pressure of 6 women.

Age (X)	55	42	36	31	60	25
Blood Pressure (Y)	135	140	126	146	122	165

Fit the regression line of Y on X. Estimate the blood pressure of a woman whose age is 45 years.

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