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

MBA I Year I Semester Supplementary Examinations Feb-2021

BUSINESS STATISTICS AND ANALYTICS FOR DECISION MAKING

Time: 3 hours

Max. Marks: 60

SECTION – A

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

- 1 Explain origin and development of statistics. 10M

OR

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

UNIT-II

- 3 Explain Measures of Dispersion? Write about range, quartile deviation, Mean deviation, Standard deviation. 10M

OR

- 4 Explain about Bowleys co-efficient of skewness and Pearsons co-efficient of skewness with examples. 10M

UNIT-III

- 5 Elaborate methods of data collection. 10M

OR

- 6 What are the representative tools used for Univariate, Bivariate and Multivariate data? 10M

UNIT-IV

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

Mar ks in Stati stics (X)	20	35	15	40	10	35	30	25	45	30
Mar ks in Acc ount s(Y)	25	30	20	35	20	25	25	35	35	30

OR

- 8 Carry out ANOVA two-way classification to the following data. 10M

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

UNIT-V

- 9 What are the models of time series? Explain with examples. 10M

OR

- 10 Explain about types of index numbers, i.e. Un-weighted price indexes weighted price indexes. 10M

SECTION – B
(Compulsory Question)

1 x 10 = 10 Marks

11. Suppose the National Transportation Safety Board (NTSB) wants to examine the safety of compact cars, midsize cars, and full-size cars. It collects a sample of three for each of the treatments (cars types). Using the hypothetical data provided below, test whether the mean pressure applied to the driver's head during a crash test is equal for each types of car. Use $\alpha = 5\%$.

Compact cars	Midsize cars	Full-size cars
6	4	2
5	2	5
3	6	6
6	8	6

*** END ***