O.P.Code: 20MB9004	R20	H.T.No.									

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

MBA I Year I Semester Regular & Supplementary Examinations January/ February-2025

BUSINESS STATISTICS FOR MANAGERS

Time: 3 Hours **Max. Marks: 60**

SECTION – A

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

UNIT-I

1	a	Explain the types of Statistical methods.	CO1	L2	5M
	b	Discuss in detail the Limitations of Statistics with illustrations	CO1	L2	5M
		OR			
2	a	Write a note on Functions of Statistics.	CO1	L2	5M
	b	Explain role of Statistics in Business Management.	CO1	L2	5M

UNIT-II

3	a	Explain Measures of Central tendency.	CO2	L2	5M
	b	Two brands of Tyres are tested for their life and the following results were obtained:	CO2	L2	5M

Life (in months)	20-25	25-30	30-35	35-40	40-45
No.of Tyers 'X'	1	22	64	10	3
No.of Tyers 'Y'	3	21	74	1	1

If consistency is the criterion which brand of tyre would you prefer?

OR

4		Discuss the application of dispersion measures for business decision making with suitable examples.	CO2	L2	10M

UNIT-III

5	a	Explain Classification and tabulation of data.	CO3	L2	5M
	b	Draw a pie chart to represent the following data of the proposed expenditure by the Government for 2024-25.	CO3	L5	5M

Items	Agriculture	Industry	Irrigation	Education	Miscellaneous
Expenditure (Rs. In Lakhs)	600	400	450	300	250

OR

6	a	Explain the procedure for Drafting Questionnaire.	CO3	L2	5M
	b	Express the following data using Pie- Chart:	CO3	L6	5M

Items	Expenditure as % Total
Food	40
Clothing	15
Housing	10
Fuel	15
Education	10
Enterrtainment	5
Miscellaneous	5

UNIT-IV

7	a	What is Correlation? Properties of Correlation Coefficient.	CO4	L1	5M
	b	Calculate the coefficient of correlation from the following data	CO4	L4	5M

X	6	7	7	8	9	10
Y	18	17	16			

OR

8	a	Distinguish between Correlation and Regression.	CO4	L2	5M
	b	Determine the Regression equation of X on Y and Y on X for the following data:	CO4	L5	5M

X	12	14	16	20	32
Y	34	36	38	40	48

UNIT-V

9	a	Define Hypothesis. Explain the importance of hypothesis testing.	CO5	L2	5M
	b	A random sample of size 20 from a normal population gives a sample mean of 42 and sample standard deviation (S.D) of 6. Test the hypothesis that the population mean is 44.	CO5	L6	5M

OR

10	a	Explain the procedure involved in solving ANOVA problem	CO5	L4	5M
	b	The following data shows the retail prices of certain commodities selected at random in three different places. Carryout the analysis of variance to test the significance of the difference between the prices of the commodity in three places.	CO5	L4	5M

A	B	C
6	9	5
7	10	6
5	11	4
18	30	15

SECTION – B

(Compulsory Question)

1 x 10 = 10 Marks

11 Use the following data

		Sales Man			
		P	Q	R	S
District	A	30	70	30	30
	B	80	50	40	70
	C	100	60	80	80

Use 0.05 to carry out the analysis of variance and interpret the results

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