SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech. III Year II Semester Regular &Supplementary Examinations June-2025
DATA ANALYTICS USING R
(Computer Science & Information Technology)

Time: 3 Hours Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	Explain the needs of Data Analytics.	CO1	L3	6M
	b	Find the mean, median and mode of the following data: 23, 57, 24, 49, 31,37, 10, 30, 57, 40, 35, 16, 57, 29, 03, 40.	CO1	L2	6M

OR

2	a	Discuss the benefits of Big Data.	CO1	L4	6M
	b	The scores for nine students in history and algebra are as follows: History: 35, 23, 47, 17, 10, 43, 9, 6, 28 Algebra: 30, 33, 45, 23, 8, 49, 12, 4, 31 Compute the Spearman rank correlation.	CO1	L2	6M

UNIT-II

3	a	Explain the T-test in detail.	CO2	L3	6M
	b	Discuss in detail about the comments in R.	CO2	L2	6M

OR

4	a	Explain the different types of Operators in R.	CO2	L4	6M
	b	Write a R program to do all the arithmetic operations.	CO2	L2	6M

UNIT-III

5	a	Illustrate the output statements with example.	CO3	L3	6M
	b	Explain the objects in R language with appropriate examples.	CO3	L2	6M

OR

6	a	Write a R program to find sum of natural numbers.	CO3	L4	6M
	b	Create a R program to display Fibonacci series.	CO3	L2	6M

UNIT-IV

7	a	Explain vector indexing with an example.	CO4	L4	6M
	b	Write a R program to obtain the length of the vector.	CO4	L3	6M

OR

8	a	Explain the functions of Vectors in R.	CO4	L4	6M
	b	What is a matrix in R ? Explain how to create a matrix.	CO4	L2	6M

UNIT-V

9	a	How to access the elements of a list ? Explain	CO5	L3	6M
	b	Explain some operations of list data type in R with examples.	CO5	L2	6M

OR

10	a	Discuss the Import & Export of data in excel files with suitable examples.	CO5	L4	6M
	b	Explain why R is preferred over Python in data visualization.	CO5	L2	6M

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