Q.P.Code: 20CI0608

R20

H.T.No.

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

B.Tech III Year II Semester Regular Examinations August-2023

DATA ANALYTICS USING R

Times		(Computer Science & Information Technology)			
111	пе	: 3 Hours (Answer all Five Units $5 \times 12 = 60 \text{ Marks}$)	Max.	Mar	ks: 60
		UNIT-I			
1	a	Define Data Sets.	CO1	L1	6M
		Explain about the tools used for Data Analytics.	CO1	L2	6M
		OR	COI		OIVI
2	a	Explain the following Correlations:	CO ₁	L2	6M
		i) Spearman Correlation ii) Pearson Correlation			
	b	Suppose the current annual salary of all teachers in the United States	CO ₁	L3	6M
		have a normal distribution with a mean of 51000 dollars and a standard			
		deviation of 6000 dollars. Find the probability that the annual salary of a randomly selected teacher would be between 42000 and 65000.			
		UNIT-II			
3	а	Discuss in detail about the Linear regression.	CO2	1.2	CM
	b	Explain the T-test in detail.	CO2	L2 L2	6M 6M
		OR	COZ	LZ	OIVI
4	a	Explain following Data structures:	CO2	L2	6M
		i) Data Frames ii) Classes			
	b	Write a R program to do all the arithmetic operations.	CO ₂	L6	6M
		UNIT-III			
5		Write a R program to find sum of natural numbers.	CO ₃	L6	6M
	b	Write a R program to find whether a given number is even or odd.	CO ₃	L6	6M
6		OR Explain the breek and next statements in Parish and 1	~~~		
U	a b	Explain the break and next statements in R with an example.	CO ₃	L2	6M
		Write a R program to count the number of even number using for loop. UNIT-IV	CO3	L6	6M
7		What is a vector in R? Explain classes and elements of a vector.	CO ₄	L1	6M
	b	How to access the elements of a vector?	CO ₄	L2	6M
8	•	What is an Amore in B2 Free lain Heart	~~.		
0	a h	What is an Array in R? Explain How to create an array. Explain how to access the elements of an array.	CO4	L1	6M
	D	UNIT-V	CO4	L2	6 M
9	a	Explain the following functions for list with an example:	CO5	L2	6M
		i) lapply() ii) sapply()			OIVI
	b	Explain how to add and delete the elements of a list with an example. OR	CO5	L2	6M
10	Ex	plain the following techniques with syntax and example: i) Pie chart ii) Scatter	CO5	L2	12M

*** END ***