Reg. No.:					

Question Paper Code: 93C03

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

Third Semester

Computer Science and Business System

		Computer Science	c and Dusiness System		
		19UCB303 - Co	omputational Statistics		
		(Regu	lation 2019)		
Duration: Three hours				Maximum: 10	00 Marks
		Answer A	ALL Questions		
		PART A - (1	$0 \times 1 = 10 \text{ Marks}$		
1.	The fun	ction creates a regular	sequence of values to for	rm a vector.	CO1- U
	(a) sequel	(b) Rep	(c) seq	(d) Grep	
2.	Which function is	used to combine the el	ements into a vector?		CO2- A
	(a) C()	(b) D()	(c) E()	(d) F()	
3.	What is the meaning	ng of "<-"?			CO1- U
	(a) Functions	(b) Loops	(c) Addition	(d) Assignm	nent
4.	Identify the outpu	t of the following R co	ode?		CO2- A
	> m <- matrix(nro				
	> dim(m)				
	(a) 3 2	(b) 2 3	(c) 2 2	(d) 4 5	
5.	Which function gibe loaded.	ves an error message i	f the desired package car	nnot	CO2- A

(a) Dplyr (b) Require

(c) Library

(d) Sample

6. ____ evaluate the cumulative distribution function for a Normal distribution.

CO1- U

distribution.

(a) dnorm

(b) rnorm

(c) pnorm

(d) rpois

7. Which of the following is lattice command for producing boxplots?

CO2-A

	(a) plot()	(b) bwplot()	(c) xyplot()	(d) barlm()				
8.	_	functio	n carries out a chi-square	test.		CO1- U			
	(a) chisq.test()	(b) t.test()	(c) prop.test()	(d) fisher.tes	t()			
9.		Then there are model is termed a	•	variables in the model, then	n the linear	CO1- U			
	(a) Unimodel		(b) Multiple model					
	(c) Multiple Line	ar model	(d) Multiple Logistic r	nodel				
10.	. Fu	unction used for	linear regression in R is _			CO1- U			
	(a) lm(formula,da	ta)	(b) lr(formula, data))				
	(c) lrm(formula, c	lata)	(d) regression.linear(formula, data)					
			PART – B (5 ×	x 2= 10 Marks)					
11.	List	the different D		CO1- U					
12.	List	the miscellaneo		CO1 -U					
13.	List		CO1- U						
14.	Wha	at is meant by V	isualization?			CO1- U			
15.	List	any 3 types of	Regression.			CO1-U			
			PART – C (5 x 16= 80 Marks)					
16.	(a)	Discuss Lists	n R with Suitable Exampl	e.	CO1-U	(16)			
			Or						
	(b)	Explain Data l	Frame in R with appropria	te example	CO1-U	(16)			
17.	(a)		m to get the first 10 Fibor	nts and apply those concept acci numbers.	ts to CO2- A	app (16)			
	(b)	Explain Array 1 dimensional		m to convert a given matri	ix to CO2- A	App (16)			
18	(a)	Develop R F Example.		Pata Sorting with appropr	riate CO2- A	App (16)			
	(b)	-	Program to implement all	Or Set Operations in R and to e given vector values using		App (16)			

19.	(a)	Explain Scatter Plot and Box Plot with an Example	CO1- U	(16)
		Or		
	(b)	Explain Binomial and Normal distribution in detail.	CO1- U	(16)
20.	(a)	Explain linear and Multiple Regression in detail Or	CO1- U	(16)
	(b)	Explain the concept of Spline and Decision Tree in detail	CO1- U	(16)