



B.Tech IV Semester Supplementary Examinations, February 2024

R PROGRAMMING

(CSE (AI & ML))

Maximum Marks: 70

Date: 28.02.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(10x2M=20Marks)	CO	Bloom Tx
1	Write about Arrays and Matrices in R?		1	L2
2	Write about vectors in R?		1	L2
3	What is Recursive list?		2	L2
4	How to create Matrices?		2	L2
5	What are table related Functions?		3	L2
6	How to create Dataframes?		3	L2
7	What are arithmetic and Boolean operations?		4	L2
8	Define Set operations.		4	L1
9	How to read and write files?		5	L2
10	How to customize Graphs?		5	L2

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	A. Explain Regression Analysis of Exam Grades. [5] B. What are the Common Vector Operations. [5]		1	L2
	OR			
12	A. Explain Using all(), any(), NA and NULL Values. [5] B. What are the Vectorized Operations. [5]		1	L2
13	A. Explain General Matrix Operations. [5] B. How to avoiding Unintended Dimension Reduction. [5]		2	L2
	OR			
14	A. What is Higher-Dimensional Array. [5] B. How to create a Lists and List of Operations. [5]		2	L2
15	A. Explain lapply(), sapply() and tapply() in data frames. [5] B. Define Factors and Levels and how to create a factor in R. [5]		3	L2
	OR			
16	A. What are the Common Functions are Used with Factors. [5] B. What are the Merging Data Frames. [5]		3	L2

17	A. Explain Control Statements in R Programming. [5] B. Briefly explain No Pointer in R Programming. [5]	4	L2
	OR		
18	A. Explain Sorting and Set Operations. [5] B. Explain anonymous functions. [5]	4	L2
19	A. How to accessing the Internet in R Programming. [5] B. Explain String Manipulation Functions. [5]	5	L2
	OR		
20	A. Explain how to creating Graphs. [5] B. Explain about polygon(), lowess() and loess() with an example. [5]	5	L2