



**B.Tech IV Semester Supplementary Examinations, July 2024**

**R PROGRAMMING  
(CSE(AI&ML))**

**Maximum Marks: 70**

Date:31.07.2024 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=20 Marks)	CO	Bloom Tx
1	What is the purpose of lm()?		1	L1
2	What is regression analysis		1	L1
3	Explain the use of unlist()		2	L1
4	What is the purpose of as.matrix()		2	L1
5	What is a data frame in R programming?		3	L1
6	Define Factors and Array.		3	L1
7	Write assignment operators in R.		4	L1
8	What are the set operations?		4	L1
9	List two input functions that are accessing through keyboard.		5	L1
10	Define print() function.		5	L1

**Part-B**

Answer All the following questions.		(5X10M=50Marks)		
11	Explain the different types of operators in R programming with suitable example? [10M]		1	L1
OR				
12	What are vectorized operations in R Programming? Explain with suitable examples. [10M]		1	L1
13	Explain briefly about applying functions to matrix rows and columns [10M]		2	L2
OR				
14	How to access list components and values in R programming explain with suitable example. [10M]		2	L1
15	a) Explain Vector and Factor and differentiate them. [5M] b) Explain how to merge two data frames with example. [5M]		3	L2
OR				
16	Explain about Factor and write syntax how to convert a vector into Factor. [10M]		3	L2

17	List the control statements in R Programming with syntax and example. (10M)	4	L1
	OR		
18	What is Recursion and Recursive Function in R programming? Find the sum of Natural numbers using Recursion. [10M]	4	L3
19	Write about abline(), points(), legend(), text(), locator(). [10M]	5	L4
	OR		
20	How to create graphs in R programming? [10M]	5	L3