



R20 Regulation

Subject code:3P4GC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech IV Semester Supplementary Examinations, December 2024

R PROGRAMMING (CSE (AI & ML))

Maximum Marks: 70

Date:17.12.2024

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 assignment operator?	1	L1
2	What is a scalar and write its syntax.	1	L1
3	Define list and write the syntax for finding the length of the list.	2	L1
4	Define table.	2	L1
5	Define a data frame with syntax.	3	L1
6	Define Factor.	3	L1
7	Write control statement in R?	4	L1
8	List out arithmetic and Boolean operators in R.	4	L1
9	Write the syntax for scan () function.	5	L1
10	Write about writing a single line from keyboard.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain the following functions with examples. a)Help () b) example () c) rep () d) NA () e) NULL (). [10M]	1	L2
OR			
12	Explain briefly about vector and Write the syntax & example for length of vector. [10M]	1	L2
13	A) Explain matrix multiplication and matrix addition with an example. [5M] B) Write and explain general list operations. [5M]	2	L2
OR			
14	Explain briefly about applying functions to matrix rows and columns [10M]	2	L2
15	Explain lapply(), sapply(), tapply() in data frames. [10M]	3	L2
OR			
16	Explain about factor and table related functions. [10M]	3	L2

17	Explain briefly about functions for Statistical Distributions [10M]	4	L2
	OR		
18	Explain writing upstairs in R. and explain super assignment operator. [10M]	4	L2
19	List and explain string manipulation functions in R. [10M]	5	L2
	OR		
20	A) Explain about creation of a graph and abline with example? [5M] B) Differentiate about print () and cat (). [5M]	5	L2