



R18 Regulation

Subject code: 2P6EB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, February 2024

R PROGRAMMING

(CSE)

Maximum Marks: 70

Date: 22.02.2024 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.
 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)		Bloom's Tx	CO
1	What is the usage of cat()?	L1	CO1
2	What is a scalar and write its syntax?	L1	CO1
3	Define list. Write the syntax for finding the length of the list.	L1	CO2
4	What is the purpose of as.matrix()?	L1	CO2
5	What is a data frame in R programming?	L1	CO3
6	Distinguish between single square and double square brackets?	L1	CO3
7	Define all() and any() functions in R.	L1	CO4
8	Write any two differences between data frame and data table?	L1	CO4
9	Define grep(), regexpr().	L1	CO5
10	Give a syntax for "what" attribute in scan () function.	L1	CO5
Part-B			
Answer All the following questions. (10M X 5=50Marks)			
11	Explain the different types of operators in R programming with suitable example. [10M]	L2	CO1
OR			
12	What are vectorized operations in R Programming? Explain with suitable examples. [10M]	L2	CO1
13	Define a matrix? How to create matrices in R and how to add and delete rows and columns from the matrix. [10M]	L2	CO2
OR			
14	a) Create a list for student and print the components of a list with the index and name. [5M] b) Explain adding and deleting of components from a list. [5M]	L3 L2	CO2
15	Explain the following terms with syntax and examples a) rbind() b) cbind(), c) apply(). [10M]	L2	CO3
OR			

16	a) Explain how to merge two data frames with an example. [5M] b) Explain aggregate () and cut () function. [5M]	L2 L2	CO3
17	a) What is anonymous function and explain replacement function?[5M] b) Write a program to print squares of numbers in a given range by using functions? [5M]	L2 L3	CO4
OR			
18	a) Explain random number generation statistical distribution functions? [5M] b) Find the minimum and maximum for 14, 23, 16, 20, 0, -17, and 100. [5M]	L2 L3	CO4
19	Write about abline(), points(), legend(), text(), locator(). [10M]	L1	CO5
OR			
20	Explain functions that are accessing through keyboard. [10M]	L2	CO5