



R18 Regulation

Subject code: 2P6EB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VI Semester Supplementary Examinations, June/July 2023
R PROGRAMMING
(Computer Science and Engineering)

Maximum Marks: 70

Date:30.06.2023 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)

- 1 Define vectorized function.
- 2 Define regression analysis.
- 3 Define list. write the syntax for finding the length of the list.
- 4 What is cbind() and rbind().
- 5 How to access multiple value of the array in R.
- 6 Define Factors and Array.
- 7 Write replacement function with syntax.
- 8 Define rbind(), cbind() with example.
- 9 Write about text () function.
- 10 How to create a data for the chart by giving a file name & saving a file?

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 Differentiate list, matrix, data frame, and scalar. [10M]
OR
- 12 Write about R data structures and explain with suitable examples. [10M]
- 13 a) Explain matrix multiplication and matrix addition with an example. [5M]
b) Write and explain general list operations. [5M]
OR
- 14 Explain briefly about applying functions to matrix rows and columns [10M]
- 15 Explain lapply(), sapply(), tapply() in data frames. [10M]
OR
- 16 Describe the changing of order level with two examples. [10M]
- 17 List the control statements in R Programming with syntax and example. [10M]
OR
- 18 a) Explain Scope and Environment in R. [5M]
b) Find the minimum and maximum for 14, 23, 16, 20, 0, -17, and 100. [5M]

- 19 a) Define barplot? How to create a bar plot of data for the chart by giving a chart file name & saving a file?[5M]
b) Define Histogram with its Syntax & How to create a histogram by giving a chart by giving a chart file name & saving a file? [5M]

OR

- 20 Explain string manipulation functions with examples. [10M]