



B.Tech III Semester Supplementary Examinations, July 2022
R PROGRAMMING

(CSE (DS))

Maximum Marks: 70

Date:29.07.2022 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 a list with its syntax.
- 2 Define Array with syntax.
- 3 Create a byrow() matrix.
- 4 What is cbind() and rbind().
- 5 What is contingency table?
- 6 Write syntax to Extract sub data frame.
- 7 What is assignment operator?
- 8 Write any two differences between data frame and data table.
- 9 Define grep(),regexpr().
- 10 Give a syntax for "what" attribute in scan () function.

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 Explain the following with examples
a) Help () b) example () c) rep () d) NA () e) NULL (). [10M]
- OR
- 12 Explain and differentiate NA and NULL with an example by applying mean () and mode (). [10M]
- 13 a) Define a matrix and explain three ways of creating a matrix [5M]
a) Write about list and its syntax and explain about accessing list components. [5M]
- OR
- 14 a) Create a list for student and print the components of a list with the index and name. [5M]
b) Write a R Program to find Armstrong number or not [5M]
- 15 Explain the following terms with syntax and examples [10M]
a) rbind() b)cbind(), c)apply().
- OR
- 16 a) Explain how to merge two data frames with example. [5M]

- b) Explain aggregate () and cut () function. [5M]
- 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]
- OR
- 18 a) Explain writing upstairs in R. and explain super assignment operator. [5M]
b) Explain random number generation statistical distribution functions. [5M]
- 19 Explain plot(), ggplot() and ggplot2() [10M]
- OR
- 20 Explain functions that are accessing through keyboard. [10M]