

First Mid Semester Examination, October 2024

R Programming for Data Science and Data Analysis (AL-304)

Branch: AIML Semester: III

Time 1:30 Hrs

Max. Marks 20**Note: All questions are compulsory****Q.1 Describe all types of warning levels. Explain with example?****OR****Why we need R for Data Analysis?****(CO 1 5 marks)****Q.2 What is use of is.* function and as.* function, explain with example?****OR****Explain about rbind() and cbind(). Write an R program to add a new 3 columns in a given data frame.****(CO 1 5 marks)****Q.3. What is array? Create $5 \times 4 \times 3$ Array in R and extract subset of**

- a) [1:3,2:3,1:3] b) [2,1:4,2:3] c) [, 2:3,] d)[1:4, ,1:2]
e)[c(2,4),c(1,4),c(1,3)]

OR**What is matrix? Create 5×6 matrix with various values and assign names to them using R and extract 3rd row and 2nd to 5th column using indexing and names.****(CO2 5 marks)****Q.4 Create character vector****x=c("Sunday","Monday","Tuesday","Wednesday","Thursday").**

- a) Extract 2 and 5 element of x, b) Rename Sunday to Sun
c) Rename Monday and Thursday with Jan and May.

OR**What are Assignment Expressions, explain about < and = with examples?****(CO2 5 marks)**