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Enroll No.....

Class Roll No.....

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)