

LNCT UNIVERSITY

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Enroll No.....

Class Roll No.....

Second Mid Semester Examination, Dec 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 and have internal choice.

Q.1 Explain rounding functions with examples.

(CO3 7 Marks)

OR

Develop a function that can behave differently according to the type of input object, define a function `obj_type` that can return the first element if the input object is an atomic vector such as numeric, character or logical vector. But if the input object is a list and index, it should return a user defined element.

Q.2 What is use of `grep()` function? Explain following symbols a) ^ b) \w+ c) \s d) \$ e) \d f) : with example

(CO4 7 Marks)

OR

Explain about i) `tolower` & `toupper` function ii) `nchar` function iii) `trimws` function with examples.

Q.3 Explain Scatter and line plot. Write an R program to plot scatter plot and line plot using following data-

Heights (cm): 155, 165, 170, 175, 180, 185, 190, 195, 200, 205

Weights (kg): 52, 57, 63, 68, 74, 79, 83, 88, 92, 98

(CO5 6 Marks)

OR

Explain the difference between i) `cat()` and `message()` function ii) `cat()` and `paste()` function with example.