Code No: 138GT **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, September - 2020
R PROGRAMMING
(Electronics and Communication Engineering)

Time: 2 Hours **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks
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1.a) R has five "atomic" classes of objects. What are they? Quote examples.
b) Make a comparison of implicit coercion and explicit coercion. [7+8]

2.a) Demonstrate repeat loop and seq_along ( ) function.
b) Explain argument matching in R functions. [7+8]

3. How to create a list and demonstrate all the ways of accessing a list component. [15]

4.a) Demonstrate finding the largest cells in a table.
b) What are the arguments in a call to table( )? Give example. [7+8]

5.a) What kind of tools does R has for simulation programming?
b) Discuss the significance of visualization and R's support for it. [8+7]

6.a) How are complex numbers handled in R? Explain with suitable examples.
b) How to import packages in R? Give examples. [7+8]

7.a) Illustrate the concept of recycling in vectors.
b) What effect does concatenate function has on vectors? Explain with an example. [7+8]

8.a) Which matrix operations are applicable to data frames? Explain with examples.
b) How to run a logistic regression model on data in a data frame? Give illustration. [8+7]

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