

R16

Code No: 138GT

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**

- 1.a) R has five "atomic" classes of objects. What are they? Quote examples. [7+8]
b) Make a comparison of implicit coercion and explicit coercion.
- 2.a) Demonstrate repeat loop and seq_along () function. [7+8]
b) Explain argument matching in R functions.
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. [7+8]
b) What are the arguments in a call to table(.)? Give example.
- 5.a) What kind of tools does R has for simulation programming? [8+7]
b) Discuss the significance of visualization and R's support for it.
- 6.a) How are complex numbers handled in R? Explain with suitable examples. [7+8]
b) How to import packages in R? Give examples.
- 7.a) Illustrate the concept of recycling in vectors. [7+8]
b) What effect does concatenate function has on vectors? Explain with an example.
- 8.a) Which matrix operations are applicable to data frames? Explain with examples. [8+7]
b) How to run a logistic regression model on data in a data frame? Give illustration.

---ooOoo---