



Anurag University

B Tech III Year II-Semester Supplementary Examinations, November-2024

Course: R Programming
(Common to CSE, AI & AIML)

Time: 3Hours

Max Marks: 60

Section –A (Short answer type questions)

- **Answer all questions:** (10 x 2 =20Marks)
 1. Differentiate between arrays and vectors in R programming.
 2. Give an example to create a Matrix and name it.
 3. Briefly discuss about Relational Operators.
 4. Explain about ordered factors.
 5. Explain about passing arguments to a function.
 6. What is variable scope?
 7. List out some built-in functions in R?
 8. How to set the axis labels and title of the R plots?
 9. What is multiple regression?
 10. Develop a function to find the sum of the contents (assumed numeric) in all files in a directory tree.

Section—B (Essay Answer type questions)

- **Answer all questions:** (5 x 8 =40 Marks)
 11. A) In details summarize the advantages and disadvantages of R.
OR
B) Write a R program to get the first 10 Fibonacci numbers.
 12. A) Discuss about i) Conditional Statements ii) Logical Operators with suitable examples in R.
OR
B) What is a list? Explain about Lists and its methods.
 13. A) Explain binary search tree implementation using R.
OR
B) What is Recursion? Explain it with R program.
 14. A) Explain about i) Line Charts ii) Bar Charts.
OR
B) Explain in detail about drawing multiple plots in one window
 15. A) Discuss about basic statistical Operations. Demonstrate about paired t and u – tests.
OR
B) Explain i) CSV Files ii) XML Files