



**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