Department of Computer Science
Class : Msc II Sem(NEP)
Subject : R Programming
Question Bank

Unit I

1. **Write about vectors in R.**
2. **Explain different data structures in R.**
3. **Implement binary search tree with R**
4. **Explain the importance of dataframe?**
5. **Write about complex objects in R.**
6. **Write about data frame? Write about operations on data frame.**
7. **What are the data structures in R that is used to perform statistical analyses and create graphs?**

Unit II

1. **Explain different types of operators in R.**
2. **Write about control statements in R.**
3. **Write about apply method in R?**
4. **write about lapply,sapply with suitable examples?**
5. **Write about different functions for statistical distribution.**
6. **what is the use of par() function.**
7. **Write about the following with example**
    a. **Mean**
    b. **Mode**
    c. **Median**
    d. **Cumulative Sum**
    e. **Cumulative Max**
    f. **Cumulative Min**
    g. **Cumulative Product**

Unit III

1. **Write about all summary commands in R?**
2. **What is cumulative sum,product,min,max? Explain with example?**
3. **Write R functions used for this purpose?**
4. **Write about Binomial Distribution.**
5. **Write about basic math in R?**
6. **Write about plot function.**

7. **Explain dnorm() function .**
8. **Define Multiple Regression.**

Unit IV

1. **How to apply same functions to all rows and columns of a matrix? Explain with example.**
2. **Write R code to generate first n terms of a Fibonacci series**
3. **Write about sort, rank and order functions with examples. Write about functions for statistical distributions.**
4. **Explain about Finding Stationary Distributions of Markov Chains.**
5. **Write about Arithmetic and Boolean operators in R programming?**
6. **How to create user defined function in R?**
7. **How to define default values in R? Write syntax and examples?**
8. **Write about the following functions with example**
   a)points()
   b) legend()
   c)text()
   d) locator()