Echelon Institute of Technology, Faridabad

Assignment No– 1 : Even Semester 2023-24

Course/Branch : BCA/DS   **Semester** : 4th

Subject Name : Scientific R Programming   **Max. Marks** : 20

Subject Code : BCA-DS-213

CO-1   *: Understand basic concepts such as data type and index and use them in their work.*

CO-2   *: Demonstrate use of basic functions.*

CO-3   *: Conceptualize and create loops to solve different types of problems.*

Q.1 : Attempt all the questions (Short Answer Type).   (2 x 4 = 8 Marks)

     a) What is R?

     b)   What is an Object in R?

     c) What is Vector in R?

     d)   What is Dataframe in R?

Q.2: Discuss special values in R.   [4]

Q.3.: Explain the concept of S3, S4 and Reference Classes with example.   [4]

Q4 : Explain the concepts of matrices and arrays and how they are used in R.   [4]