Roll no.....



End Term (Odd) Semester Examination December 2024

Name of the Course and semester: Bachelor of Computer Applications, III Name of the Paper: R Programming Paper Code: TBC 305(2) Maximum Marks: 100 Time: 3 hour Note: (i) All the questions are compulsory. (ii) Answer any two sub questions from a, b and c in each main question. (iii) Total marks for each question is 20 (twenty). (iv) Each sub-question carries 10 marks. (2X10=20 Marks) 01. a. How can you calculating memory requirements for R object? Define all steps? [CO2] b. List and define reading and writing data files is R with suitable examples? [CO2] c. Explain package in R? Define any two package? Write a code for install and load packages? [CO1] (2X10=20 Marks) **Q2.** [CO3] a. What is control structure? Explain all with examples? [CO3] b. How many types of functions in R? Explain summary functions with examples? [CO3] c. Write a code in R for use of function arguments and return values? (2X10=20 Marks) O3. a. If you want to relabelling the column names, which functions is used? Explain relabelling with column [CO4] names and also index with examples? [CO4] b. Can you convert variable types? Define all types of conversion? c. How can you visualize the data? Explain different types of plot in R? [CO4] (2X10=20 Marks) [CO4] a. Differentiate with bar and histogram plotting with examples? b. Explain about creating and adding of elements to the list give an example. How to convert list to matrix in R programming. c. Write a R program to create a matrix, taking a given vector of numbers as input and define the column [CO2] and row names. Display the matrix? (2X10=20 Marks) O5. [CO5] a. Define all types of model in R with examples? b. Write R program to demonstrate working with operators(arithmetic,logical,relational, miscellaneous and [CO2] assignment operators). c. How you can analysis of variance and comparison of model? Explain examples? [CO5]