

End Semester Examinations - 2015-16 Even Semester - May 2016

14BI2019 R Programming

Set B

Time : 3 hrs
Total Marks: 100

1. A) Explain about the need and characteristics of data frame. (5)
- B) Create a data frame with factor data containing 7 rows and 7 columns. Perform the following with data frame - Get the structure of data frame,
print the summary of data and show how to extract data from data frame. (15)

OR

2. Explain how mathematical or logical manipulations done using operators. Discuss about all types of operators used in R language along with examples. (20)

3. A) Explain how factors are used to categorize the data and store it as levels. (15)
- B) Write an R code showing the implementation of factors in data frame. (5)

OR

4. Write the procedure and explain how to read, write and analyze csv and excel file types with syntax and examples. (20)

5. Explain how statistical analysis done for the given data using mean, median and mode functions in R language. Explain all the available features of the functions with syntax and examples. (20)

OR

6. Explain the procedure and syntax for draw a line graph and multiline chart with suitable examples. Show comments for each line in the script. (20)

7. How to represent frequencies of values of a variable into ranges using histogram function in R script. Discuss about all the parameters used in the function. (20)

OR

8. Write a short note on multiple regression model. Cite an instance and show the procedure to establish multiple regression model using R programming.

9. Explain how sequence analysis and computation done on biological data using “Seqinr” package. (20)
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Wishing you All the Best
