

A

(20322)

Roll No.

B. Sc.(Hons.) (Com. Sc.)-III Sem.

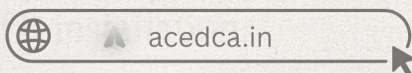
NS-3298(CV-III)

B. Sc. (Hons.) Examination, Dec. 2021

COMPUTER SCIENCE

Statistical Computing with R Programming

(BHCS-301)



Time : 1½ Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Answer any *two* questions out of the following five questions. Each question carries 7½ marks.

$$7\frac{1}{2} \times 2 = 15$$

(2)

1. How do you assign a variable in R ?
2. What is the use of `by ()` in R ?
3. How do you import data in R ?
4. How do you read a CSV file in R ?
5. Give an example of repeat and break statements in R.



Section-B

(Short Answer Type Questions)

Answer any *one* question out of the following three questions. Each question carries 15 marks.

15×1=15

6. What are the steps to build and evaluate a linear regression model in R ?
7. What is a Histogram ? How to make a Histogram with Basic R ?

(3)

8. What are 3 sorting algorithms available in R ?

Section-C

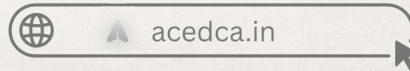
(Detailed Answer Type Questions)

Answer any *two* questions out of the following five questions. Each question carries $22\frac{1}{2}$ marks.

$$22\frac{1}{2} \times 2 = 45$$

9. Write a R program to take input from the user (name and age) and display the values. Also print the version of R installation.
10. What is R mark down ? What is the use of it ? Explain with proper example.
11. What are the steps to build and evaluate a linear regression model in R ? Justify each step with proper explanation.
12. Write a R program to get the first 10 Fibonacci numbers. Give proper comments for justification of the control statements.

(4)



13. What is SAS ? Give the applications of SAS.
What is the importance of SAS for Data Science ?