SDCCA202

II Semester BCA/BCA (DS) Degree Examination, June/July - 2025
(SEP Fresher's Scheme)
COMPUTER APPLICATION
Statistical Computing and R Programming

Time :3 Hours   Maximum Marks : 80

Instructions :

Answer All Sections.

SECTION-A

I. **Answer any Ten questions, Each question carries 2 marks.**   (10×2=20)

1. Define package.
2. Mention any two data types used in R.
3. What is Data Frame in R?
4. Write the syntax of for loop in R.
5. What is built in function?
6. What is Exception Handling?
7. What is data Visualization?
8. Mention any two statistical function used in R Programming.
9. Define PDF and CDF.
10. What is hypothesis testing?
11. What is plotting?
12. Expand ANOVA.

SECTION-B

II. **Answer any Six questions, Each question carries 5 marks.**   (6×5=30)

13. Mention any five disadvantages of R program.
14. Explain relational operators available in R Programming.
15. Explain switch function in R Programming.
16. Explain any 5 string functions in R Programming with syntax and example.
17. Explain the different functions used in Poisson Distribution.

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18. Write a R program to implement various statistical functions in R.

19. Explain one way ANOVA.

20. Write a note on plot customization.

SECTION-C

III. **Answer any Three questions, each question carries 10 marks.** **(3×10=30)**

21. a) Explain Matrix and Array data structure in R Programming. **(5)**
    b) Write a R program that includes various data types in R. **(5)**

22. a) Explain user defined function with syntax and example. **(5)**
    b) Explain any five mathematical functions used in R Programming. **(5)**

23. a) Explain histogram and pie() functions with syntax and example. **(5)**
    b) Explain the different functions used in Binomial Distribution. **(5)**

24. a) Explain simple and multiple linear regression in statistical modelling. **(5)**
    b) Explain point and click coordinates interaction in R programming. **(5)**

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