M.Sc DEGREE (CSS) SPECIAL REAPPEARANCE EXAMINATION, APRIL 2025

Third Semester

M.Sc COMPUTER SCIENCE (Data Analytics)

CORE - CA030301 - STATISTICAL MODELING USING R

2020 ADMISSION ONWARDS

8364EAE7

Time: 3 Hours   Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Explain Variables and factors with suitable example.

2. What is Quality Data?

3. Differente R and other object oriented languages.

4. What are Data frames?How do you define them in R?

5. What is the format of Function Definition in R?

6. What is known as Visibility?

7. Why Testing proportions are used?

8. What is the function for Linear regression in R?

9. How do you define Degree of freedom?

10. Explain backward selection method.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Can you explain a statistical model(Any real world example)

12. What is attach() and detach() function used for?

13. What are conditional loops?

14. What is the difference between Try and TryCatch?

15. Differentiate z-test and t-test with an example.How does no: of samples differ in each case.

16. What is average to a distribution?

17. What are sampling Distributions?

18. Is hypothesis necessary instatistics? Why?

<div align="right">(6×2=12 weightage)</div>

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain Models in Data Analysis. What are their uses?

20. Write a program to read and write a text file in R.

21. Define components of Hypotheses.

22. Write a note on sampling distribution.

<div align="right">(2×5=10 weightage)</div>