SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN (AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.
B.Sc. END SEMESTER EXAMINATIONS NOVEMBER-2022
SEMESTER - IV
20UCSAT4004 - Statistical Methods and its Applications – II

Total Duration : 2 Hrs 30 Mins.   **Total Marks : 60**

Section A

Answer any **SIX** questions $(6 \times 5 = 30$ Marks$)$

1. Explain the concept of Correlation Analysis.

2. Describe about Type I and Type II errors.

3. Apply the procedure for the test of difference between proportions.

4. Discuss the concept of test the goodness of fit.

5. What are the advantages and disadvantages of Non-parametric tests.

6. Classify about the layout and ANOVA table of CRD.

7. Describe about the critical region in test of hypothesis.

8. Determine the steps involved in construction of a LSD with an example.

Section B

Answer any **THREE** questions $(3 \times 10 = 30$ Marks$)$

9. Discuss about the need of two regression lines.

10. Describe about the Chi-square distribution.

11. Justify the procedure to test the difference between two means for large samples.

12. Explain the test of significance based on F distribution.

13. Examine the principles of design of experiment.

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