

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. Comp. Sci - END SEMESTER EXAMINATIONS APRIL - 2024

SEMESTER -IV

20UCSAT4004 - Statistical Methods and Its Applications – II

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Explain correlation and types of correlation.
2. Develop the test of significance for single proportion.
3. Discover the concept goodness of fit.
4. Define randomization, replication and local control.
5. Illustrate the difference between type I and type II errors.
6. Analyze the paired t-test for difference of means with example.
7. Write short note on Yate's correction.
8. Discuss about Kolmogorov-smirnov test.

Section C

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

9. Develop the concept of rank correlation coefficient and its advantages over Pearson correlation coefficient.
10. Discover student t, F distribution and define their properties.
11. Explain One tailed and two tailed tests, testing of hypothesis for equality of two variances.
12. Describe the Chi-square test for Independence of attributes.
13. Discuss Completely Randomized design and give statistical model for it.
