

Roll.No.

20USTCT5010

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.Statistics - END SEMESTER EXAMINATIONS - NOVEMBER 2025

SEMESTER - V

20USTCT5010 - Design of Experiments

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Describe Maximum curvature method.
2. Illustrate Tukey's test.
3. Elucidate Completely randomized design.
4. Obtain the efficiency of RBD compared to CRD.
5. Explain 2^2 – factorial experiments.
6. Describe the Newman Keul's Test.
7. Appraise Missing plot technique.
8. Discuss briefly the advantages and disadvantages of RBD.

Section C

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

9. Explain the basic principles of Experimentation.
10. Bring the analysis of Two-way classification with its ANOVA and also state the assumptions of model.
11. Elaborate Latin square design and its analysis.
12. Give an statistical analysis of LSD with one missing observations.
13. What is 3^2 –factorial experiments? Derive its main and interaction effects.
