

**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 - V**

**20USTCT5010 - Design of Experiments**

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

**Total Marks : 60**

**Section A**

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

1. Explain about Maximum curvature methods.
2. Describe analysis of one-way classified data.
3. Prepare an analysis of completely randomized design.
4. Illustrate the analysis of Randomized block design with one missing value.
5. Sketch the analysis of  $2^2$  factorial experiments.
6. Explain Duncan's multiple range test.
7. Describe the analysis of covariance technique in CRD .
8. Prepare the analysis of  $3^2$  factorial experiments.

**Section B**

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

9. Describe the Principles of Design of Experiments.
10. Prepare the analysis of two-way classification.
11. Examine the Latin Square Design (LSD) and its analysis.
12. Prepare Split plot design in RBD layout and its analysis.
13. Examine about Partial and Complete confounding in  $2^3$  design.

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