

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(CGS) - END SEMESTER EXAMINATIONS APRIL-2023

SEMESTER - IV

**21UCGAT4004 - Statistical Methods**

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

### **Section B**

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

1. Sketch a brief note on scope and limitations of statistics.
2. Describe the diagrammatic representation of data with examples.
3. How will you compute median using ogives.
4. Explain briefly about Boxplot.
5. Label any six difference between correlation regression.
6. State the application of Rank correlation with an example.
7. Describe (a) type I and type II errors (b) level of significance.
8. Examine the concept of analysis of variance along with its assumptions.

### **Section C**

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

9. Explain various classification of data with examples.
10. Elaborate on concept and prediction of skewness and kurtosis.
11. Determine regression lines of X on Y and Y on X and also list the properties of regression coefficients.
12. Prepare the test procedure in detail for test of significance.
13. Construct two –way analysis of variance with ANOVA table and conclude.

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