

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.Computer Science - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - III

20UCSAT3003 - Statistical Methods and its Application - I

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Discuss the scope and limitations of statistics.
2. Explain different classification of data.
3. Give the merits and demerits of measures of location.
4. Describe about quartile deviation and mean deviation.
5. Analyse about Box and whisker plot as well as stem and leaf plot.
6. Define (a) event (b) mutually exclusive events (c) independent events
(d) equally likely events (e) probability
7. Write a brief note on random variables and expectation.
8. Derive the mean and variance of Poisson distribution.

Section C

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

9. Elaborate on the diagrammatic representation of statistical data.
10. Explain the construction of ogive curves and determination of median.
11. Describe in detail about skewness and kurtosis.
12. Define conditional probability. Also state and prove the multiplication theorem on probability.
13. Explain Normal distribution and its characteristics.
