

Roll.No.

20UCSAT3003

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 - NOVEMBER 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. Describe the Scope and Limitations of statistical methods.
2. Explain skewness and kurtosis in detail.
3. State and prove addition theorem for two events.
4. Derive the mean and variance of Poisson distribution.
5. Describe frequency curve and Ogive in detail with example.
6. Distinguish between Box & whisker plot and stem & leaf plot.
7. Define mathematical expectation and state its properties.
8. Examine the graphical determination of median and mode.

Section C

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

9. Explain tabulation and graphical representation of Statistical data in detail with examples.
10. Classify the formula of mean, median and mode along with its merits and demerits.
11. State and prove Bayes theorem.
12. Classify and define the following measures:
 - (i) Mean deviation
 - (ii) Quartile deviation
 - (iii) Standard deviation
 - (iv) Coefficient of variation.
13. Derive moment generating function of Binomial distribution. Determine its mean and variance.
