

**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 EXAMINATION APRIL/NOV - 2021

SEMESTER - III

20UCSAT3003 - Statistical Methods and its Application - I

Total Duration : 3 Hrs	Total Marks : 75
MCQ : 30 Mins	MCQ : 15
Descriptive : 2 Hrs.30 Mins	Descriptive : 60

Section B

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

1. Explain the nature and scopes of Statistics.
2. Describe the procedure for drawing the frequency curve.
3. What is the need of studying dispersion?
4. State and prove the multiplication theorem of probability for two events.
5. Mention the properties of Normal Distribution.
6. Illustrate the importance of classification and tabulation of statistical data.
7. Discuss about the Kurtosis and its types.
8. Describe about Moment Generating Function with an example.

Section C

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

9. Explain the different types of diagrammatic representation of statistical data.
10. Discuss the procedure for constructing Ogive curves.
11. Describe about skewness and its types.
12. State and Prove Baye's Theorem with an example.
13. Derive the mean and variance of Binomial Distribution.