

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.CSc.(DS) - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - IV

22UDSAT4004 - Allied Statistics - II

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. State the axiomatic approach to probability.
2. Compute the median of normal distribution.
3. Classify the types of student t distribution.
4. What are the steps for solving a single mean t test?
5. Find the mean and variance of poisson distribution.
6. Compute the mgf of normal distribution.
7. Explain the distribution of sample mean from normal distribution.
8. Examine the steps for testing of hypothesis.

Section C

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

9. Explain the different types of events.
10. Compute the mgf of binomial distribution.
11. Obtain the parameters of Exponential Distribution.
12. Obtain the Mean, Mode of Chi-square Distribution.
13. Drive the steps to obtain sum of squares of one way ANOVA.
