

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.

M.A. (Eco) END SEMESTER EXAMINATIONS NOVEMBER - 2023
SEMESTER - I

22PECCT1002 - Statistical Methods for Economics

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Explain the concepts of sampling Distribution and Standard error.
2. Explain, with illustration, the concept of
(i) Point Estimation.
(ii) Interval Estimation.
3. Define Probability and explain the importance of this concept in statistics.
4. What is a null hypothesis? State the null hypothesis which leads to development of t-test.
5. Difference between correlation and regression.
6. What is Chi – square test of goodness of fit? What cautions are necessary while applying this test?
7. What is normal distribution? Highlight its important properties.
8. Explain the meaning of regression coefficient and the regression lines

Section C

I - Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Discuss the role of standard error in the large sample test.
10. Describe the important properties of a good estimation.
11. Distinguish between:
(a) Linear and non-linear correlation
(b) Simple, Partial and Multiple correlation.
12. The mean of a binomial distribution is 20 and standard deviation is 4. Find out n, p and q.

II - Compulsory question ($1 \times 10 = 10$ Marks)

13. Use the Chi- square test from following data.

No.turned up	1	2	3	4	5	6	Total
frequency	30	25	18	10	22	15	120
