

Roll.No.

25PECCT1002

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
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M.A.Economics- END SEMESTER EXAMINATIONS - NOVEMBER 2025  
SEMESTER - I

**25PECCT1002 - 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. Define sampling distributions.
2. Comment on Stander Error.
3. Explain Point and Interval estimation.
4. Write down the properties of a Good estimator?
5. What are Probability Distributions.
6. A dice tossed 120 times with the following results:

Number of turns up	1	2	3	4	5	6	Total
Frequency	30	25	18	10	22	15	120

Test the hypothesis that the dice is unbiased.

7. What are the types of Correlation?
8. Mention the types of Regression analysis?

**Section C**

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

9. The following data on vaccination is collected in a government hospital to find out whether vaccination reduces the severity of attack of influenzas.

	Degree of Severity		
	Very Severe	Severe	Mild
Vaccinated	10	150	240
Not Vaccinated	60	30	10

Use Chi-Square test the association between the attributes.

10. Explain the properties of Least square estimation.
11. Discuss the basic rule of Probability.
12. Elaborate the procedure for testing of hypothesis.

**Contd....**

II - Compulsory question (1 × 10 = 10 Marks)

13. Find correlation coefficient for the following data:

X	10	6	9	10	12	13	11	9
Y	9	4	6	9	11	13	8	4

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