

QP CODE: 25020772

B.A DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Sixth Semester

B.A Economics Model I

CORE COURSE - EC6CRT11 - QUANTITATIVE METHODS

2017 Admission Onwards

64CE23B4

Time: 3 Hours

Instructions to Private candidates only: This question paper contains two sections. Answer SECTION I questions in the answer-book provided. SECTION II, Internal Examination questions must be answered in the question paper itself. Follow the detailed instructions given under SECTION II.

Part A

Answer any **ten** questions. Each question carries **2** marks.

- 1. What is statistics?
- 2. Define sample design.
- 3. What is classification?
- 4. Find the geometric mean of 4 and 3?
- 5. Find the Harmonic mean from the following data: 2574 , 475 , 75 , 5 , 0.8 , 0.08 , 0.005 , 0.0009

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- 6. Define Standard deviation.
- 7. Explain Correlation.
- 8. Multiple Correlation.
- 9. Define regression co-efficient.
- 10. Classification of Index Number.
- 11. What is meant by price relative?
- 12. Define free hand method.





Max. Marks : 80



(10×2=20)

Part B

Answer any six questions.

Each question carries 5 marks.

- 13. Briefly explain different non probability sampling methods.
- 14. Explain the different types of classification.
- 15. What are the important types of diagrams used in data presentation?
- 16. Explain in detail the Properties of Arithmetic Mean.
- 17. Calculate Median from the following data:

Marks	0-10	10-30	30-60	60-80	80-90
No: of students	5	15	30	8	2

- 18. What are the uses of correlation in Economics?
- 19. Find out the correlation co-efficient

X:	10	15	20	25	30	35	40
Y:	2	3	4	5	6	7	7

- 20. Explain the uses of time series.
- 21. Estimate the trend using 3 yearly moving averages.

Year	1990	199	1992	1993	1994	1995	1996	1997
Values	8	10	11	14	13	16	22	21

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

- 22. Examine the role of statistics in economics
- 23. Calculate Mean deviation from the following series:

Х	10	11	12	13	14
Y	3	12	18	12	3

24. Distinguish between correlation and rank correlation. Estimate Spearman's correlation coefficient

X:	75	69	72	47	58	58	80	60	58	78
Y:	35	33	45	30	36	25	42	33	28	40





25. Calculate the price index number by (a) Paasche's method, (b) Laspeyre's method, (c) Fisher's method and (d) Edgeworth method

Commodity	2000		2005		
	Price	Quantity	Price	Quantity	
	(Rs)	(Kgs)	(Rs)	(Kgs)	
A	20	8	40	6	
В	50	10	60	5	
С	40	15	50	10	
D	20	20	20	15	

(2×15=30)