QP CODE: 25020772

25020772

Reg No : .....

Name : .....

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 Max. Marks : 80

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
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.

(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:

X	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 (Rs)	Quantity (Kgs)	Price (Rs)	Quantity (Kgs)
A	20	8	40	6
B	50	10	60	5
C	40	15	50	10
D	20	20	20	15

(2×15=30)