QP CODE: 24001294

24001294

Reg No : .....

Name : .....

B.A DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

CORE COURSE - EC6CRT01 - QUANTITATIVE ECONOMICS II

Common for B.A Economics Model II Foreign Trade & B.A Economics Model II Insurance

2017 Admission Onwards

C00C5DB6

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What are the four function of Statistics?
2. What is a multiple bar diagrams?
3. State the emperical relation between mean, median and mode.
4. How Mode is located graphically?
5. Why measures of dispersion is called second order average?
6. What are the merits if mean deviation?
7. Distinguish between linear and non linear correlation.
8. Write the formula for the covariance between x and y.
9. State the relationship between correlation coefficients and regression coefficient.
10. Define Time Reversal Test.
11. What is meant by analysis of time series?
12. What is line of best fit?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Distinguish between census method and sampling method.
14. Distinguish between diagrammatic and graphic representation.
15. Explain the different measures of central tendency.

16. What are the merits and demerits of Geometric Mean?

17. Compute Quartile Deviation and its Coefficient from the following data:

Weight (lbs)	58	59	60	61	62	63	64	65	66
No. of students	15	20	32	35	33	22	20	10	8

18. Explain the methods of constructing Lorenz curve.

19. Distinguish between correlation and regression.

20. Construct price index number for 2018 taking 2017 as base:

Commodity	Price 2017	Price 2018
A	90	95
B	40	60
C	90	110
D	30	35

21. Calculate the Marshal Edgeworth index number for the following data:

Commodity	2010		2018	
	Price	Quantity	Price	Quantity
A	8	6	10	5
B	10	7	15	8
C	4	3	6	3
D	7	2	8	3

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the various methods of selecting a sample.

23. Calculate arithmetic mean.

Variable	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79
Frequency	4	12	40	41	27	13	9	4

24. The following table gives the marks in Economics and Statistics of 10 students selected at random.

Economics	25	28	35	32	31	36	29	38	34	32
Statistics	43	46	49	41	36	32	31	30	33	39

Calculate the two regression equations. Also calculate the coefficient of correlation and the most likely marks in Statistics when the marks in Economics is 30.

25. What are the major problems associated with the construction of Index Number?

(2×15=30)