



QP CODE: 23105820



23105820

Reg No : .....

Name : .....

**B.A DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2023**

**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

75E727DC

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

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

1. Define primary data.
2. What is meant by Simple Random Sampling?
3. The average marks of 100 students was 40. Later on it was discovered that 74 marks of a student were misread as 14 marks by mistake. Find the correct mean?
4. Calculate the Geometric Mean of 50, 72, 54, 82, 93.
5. What are the desirable properties of a good measure of dispersion?
6. Define Standard Deviation.
7. Distinguish between simple and partial correlation.
8. Find the regression equation of Y on X.
9. Differentiate between Correlation and Regression.
10. Why Index Numbers are called specialised averages?
11. What do you mean by Circular Test?
12. How are time series analysis useful for business forecasting?

(10×2=20)

**Part B**

*Answer any **six** questions.*

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

13. Explain the limitations of Statistics.





14. The following table shows the elements of cost and profit (Rs.):

Material cost	1800
Labour cost	900
Overheads	600
Profit	300
Sales	3600

Draw a pie diagram to represent the data.

15. Explain how should you select an appropriate average.  
 16. Calculate median from the following:

Income (Rs.)	120	180	500	250	300	160	350
No. of students	12	16	2	10	3	15	7

17. What are the utilities of Median and Mode?  
 18. Explain the methods of constructing Lorenz curve.  
 19. Given  $\Sigma X = 15$ ,  $\Sigma Y = 110$ ,  $\Sigma XY = 400$ ,  $\Sigma X^2 = 250$ ,  $\Sigma Y^2 = 3200$ ,  $n = 10$ . Find the two regression coefficients.  
 20. Compute price index for the following by average of price relative method by using geometric mean.

Commodity	A	B	C	D	E	F
Price (2017)	20	30	10	25	40	50
Price (2018)	25	30	15	35	45	35

21. Calculate index number of prices for 2017 on the basis of 2016 from the data given below:

Commodity	Weight	Price per unit (2016)	Price per unit (2017)
A	40	16	20
B	25	40	60
C	5	0.5	0.5
D	20	5.12	6.25
E	10	2	1.5

(6×5=30)

**Part C**

Answer any **two** questions.  
 Each question carries **15** marks.





22. Distinguish between classification and tabulation of data. Explain the purposes and methods of classification of data giving suitable examples.

23. Calculate Quartile Deviation and its coefficient from the following:

Salary(Less Than)	10	20	30	40	50	60	70	80
No. of students	5	13	20	32	60	80	90	100

24. Calculate rank correlation coefficient from the following:

Marks (X)	26	25	38	37	41	45	60	42	53	57
Marks(Y)	52	25	30	35	48	77	38	43	86	64

25. Find trend values using 4 yearly moving average from the data given below:

Year:	2007	2008	2009	2010	2011
Production	80	85	81	79	86
Year:	2012	2013	2014	2015	2016
Production	94	90	108	120	128

(2×15=30)

