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QP CODE: 22101189

Reg No :

Name :

**B.A DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,
APRIL 2022**

Sixth Semester

CORE - EC6CRT01 - QUANTITATIVE ECONOMICS II

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

2017 Admission Onwards

E28D9EDC

Time: 3 Hours

Max. Marks : 80

Part A

Answer any ten questions.

Each question carries 2 marks.

1. All facts numerically expressed are not Statistics. Indicate with reason whether the statement is correct.
2. Define probability sampling.
3. How Median is located graphically?
4. How Mode is calculated for a continuous data?
5. Define Dispersion.
6. What are the uses of Lorenze curve?
7. Define multiple correlation.
8. Distinguish between linear and non linear regression.
9. In a study of regression equations following values were obtained. Regression coefficient of y on x = 0.25, r = 0.42, s.d (y) = 4, find standard deviation of x.
10. Write any two uses of index Numbers?
11. Test whether Fisher's Index Number satisfy Time Reversal Test if $p_1q_0 = 165$, $p_0q_0 = 237$, $p_1q_1 = 186$, $p_0q_1 = 216$
12. What is meant by Cost of Living Index number?

(10×2=20)

Part B

Answer any six questions.

Each question carries 5 marks.

13. Explain the different stages of data collection.
14. Distinguish between diagrammatic and graphic representation.
15. Explain the different measures of central tendency.





16. Calculate weighted arithmetic mean of the following data:

Designation	Monthly salary (Rs.)	Strength of staff
Class I officer	15000	10
Class II officer	8000	20
Class III officer	5000	70
Clerical staff	2500	100
Lower staff	1000	150

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

18. How you would find the Mean Deviation about Median of a continuous series?

19. Out of the lines of regression given as $2x+3y-8=0$ and $x+2y-5=0$, which one is the regression line of x on y?

20. Why Fisher's Index Number is called Ideal?

21. Fit a trend line to the following data by the freehand curve method:

Year	2011	2012	2013	2014	2015	2016	2017	2018
Sales (Rs. In lakhs)	10	30	80	50	60	40	70	90

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain briefly the various methods that are used for graphical representation of frequency distribution.

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 Karl Pearson's coefficient of correlation between the age of husband and wife:

Age of husband	23	27	28	29	30	31	33	35	36	39
Age of wife	18	22	23	24	25	25	28	29	30	32

25. Calculate 5 yearly moving average from the data given below:

Year:	1998	1999	2000	2001	2002
Production	464	515	518	467	502
Year:	2003	2004	2005	2006	2007
Production	540	557	571	586	612

(2×15=30)

