



QP CODE: 22103303



22103303

Reg No :

Name :

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

Second Semester

B.A Corporate Economics Model III

Core Course - EC2CRT05 - ELEMENTARY STATISTICS FOR ECONOMICS-II

2017 ADMISSION ONWARDS

761D4104

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Kinds of stratified random sampling.
2. What are the criteria for a good questionnaire?
3. Define non-sampling errors.
4. Define linear correlation.
5. What are the limits of correlation?
6. Define simple regression.
7. Define method of least squares.
8. Define index numbers.
9. What is paasches method?
10. What is chain base index number?
11. What are the components of time series?
12. Trend equation obtained is $y=12+0.7x$ with 2008 as the origin, find the trend equation shifting the origin to 2010.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Distinguish between census method and sample survey method.
14. What are the theoretical basis of sampling?
15. Distinguish between sampling and non sampling errors.
16. Explain scatter diagram.
17. What are the properties of correlation coefficient?
18. What are the limitations of regression analysis?





19. Calculate price index number

items	price in 1998	price in 2008
A	5	7
B	10	12
C	15	25
D	20	18
E	8	9

20. Write the importance of time series analysis.

21. What are the uses of secular trend?

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Calculate rank correlation coefficient

x	3	5	8	4	7	10	2	1	6	9
y	6	4	9	8	1	2	3	10	5	7

23. You are given the following data

	x	y
Arithmetic mean	985	12.8
Standard deviation	70.1	1.6

correlation coefficient=0.52, find 2 regression equations.

24. Calculate FISHERS INDEX NUMBER and examine whether it satisfies 1) time reversal test
2) factor reversal test

items	2009 price	2009 quantity	2010 price	2010 quantity
A	12	10	15	12
B	15	7	20	5
C	24	5	20	9
D	5	16	5	14

25. Fit a straight line trend by the method of least squares

year	2000	2001	2002	2003	2004	2005	2006	2007
value	380	400	650	720	690	600	870	930

(2×15=30)

