



QP CODE: 21103343

21103343

Reg No :

Name :

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

DECEMBER 2021

Second Semester

B.A Corporate Economics Model III

Core Course - EC2CRT05 - ELEMENTARY STATISTICS FOR ECONOMICS-II

2017 ADMISSION ONWARDS

8D5894F6

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What is stratified random sampling?
2. Differentiate questionnaire and schedule.
3. Define sampling errors.
4. What are the limits of correlation?
5. What are the merits of scatterdiagram?
6. Define linear regression.
7. Define method of least squares.
8. Characteristics of index numbers.
9. What are the methods for measuring weighted index numbers?
10. What is value index number?
11. What are the importance of time series?
12. What is cyclic variation?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. What are the merits of sampling method?
14. Characteristics of sampling.
15. What are the steps in developing sample design?
16. Different kinds of correlation.





17. Find rank correlation coefficient

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

18. Write the difference between correlation and regression?

19. Calculate index number

commodity	price in 1997	price in 2007
A	90	95
B	40	60
C	90	110
D	30	35

20. Trend equation obtained is $y=12+0.7x$ with 2008. find the trend equation shifting the origin to 2010.

21. What are the uses of secular trend?

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Find Karl pearsons' coefficient of correlation

X	78	89	96	69	59	79	68	61
y	125	137	156	112	107	136	123	108

23. You are given the following data

	x	y
Arithmetic mean	110	98
Standard deviation	12	5

Correlation coefficient=0.66, find 2 regression equations.

24. Calculate Fishers Index Number and examine whether it satisfies 1) time reversal test 2) factor revresal 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. Using 2004 as the origin, find trend equation by least squares.

year	2001	2002	2003	2004	2005	2006	2007
value	140	144	160	152	168	176	180

(2×15=30)

