QP CODE: 24020547

Reg No : ..... Name : .....

# B.A DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024

## Second Semester

B.A Corporate Economics Model III

### Core Course - EC2CRT05 - ELEMENTARY STATISTICS FOR ECONOMICS-II

2017 ADMISSION ONWARDS

F2376A7B

Time: 3 Hours

Max. Marks : 80

#### Part A

#### Answer any ten questions.

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

- 1. What are the different types of Population?
- 2. Define SRSWR.
- 3. Define non-sampling errors.
- 4. What would be your interpretation if the correlation coefficient r is equal to 1) 0, 2) -1, 3) 1,4) 0.2
- 5. Demerits of scatter diagram.
- 6. Define method of least squares.
- 7. Find bxy,if 3x+2y+4=0 is the equation of x on y?
- 8. Uses of index numbers.
- 9. What is fishers method?
- 10. What is chain base index number?
- 11. Define time series.
- 12. What is irregular variation?

(10×2=20)

Part B

Answer any **six** questions. Each question carries **5** marks.

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- 13. Limitation of sampling.
- 14. What are the essentials of good questionnaire?
- 15. Distinguish between sampling and non sampling errors.
- 16. Different kinds of correlation.

Compute correlation coefficient

17.	X 12	20	15	22	18 24 20 12 15 22
	y 30	35	28	36	29 39 30 25 30 38

18. Write the difference between correlation and regression.

Calculate price index number. items price in 1998 price in 2008

	А	40	42
19.	В	30	28
	С	6	6
	D	5.6	5.6
	Е	12	16
	F	500	520

Find the trend for the following series using 3 year weighted moving average with weight 1,2,1

20.	year	1	2	3	4	5	6	7
	value	2	4	5	7	8	10	13

21. What are the uses of secular trend?

(6×5=30)

#### Part C

Answer any two questions.

Each question carries **15** marks.

Calculate rank correlation coefficient

22.	Х	3	5	8	4	71021 69
	у	6	4	9	8	12 31057

- 23. Explain regression and what are the different types of regression?
- 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
А	4	20	6	22
В	5	10	5	9
С	3	8	4	10
D	2	10	3	12

25. Trend equation is given by  $3x^2+2x+4$  with 2000 as origin.Shift the origin to 2002 and obtain the equation.

(2×15=30)