

B.A. DEGREE EXAMINATION, NOVEMBER 2018
I Year II Semester
Core Major- Paper IV
STATISTICS FOR ECONOMISTS-II

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. What is Random Sample?
2. What is the meaning of stratified sampling?
3. What is Correlation?
4. What is the meaning of rank correlation?
5. Define Regression analysis .
6. What is regression curve?
7. Define Index number.
8. Construct an index number for 2002 taking 2001 as base.

Commodity	A	B	C	D
Prince in 2001	90	40	90	30
Prince in 2002	95	60	110	35

9. What is called as a time series?
10. What is known as secular trend?
11. What is known as co efficient of correlation?
12. What is the meaning of seasonal variation?

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. What are the merits of simple random sampling?
14. Calculate rank correlation co efficient from the following ranks

Ranks in subject-I	1	2	3	4	5	6	7	8	9	10
Ranks in subject-II	2	4	1	5	3	9	7	10	6	8

15. Write down the uses of regression analysis.

16. Calculate Laspeyre's Index number for the following data.

	Base year		Current year	
Bread	10	3	8	3.25
Meat	20	15	15	20
Tea	2	25	3	23

17. Draw a trend line by the method of semi-averages.

Year	2007	2008	2009	2010	2011	2012
Sales (in 1000)	60	75	81	110	10	120

18. What are the sources of sampling errors ?
 19. What are the uses of time series analyses.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Describe different methods of sampling.
 21. Find out the co efficient of correlation in the following case.

Height of father (in inches)	65	66	67	67	68	69	71	73
Height of son (in inches)	67	68	64	68	72	70	69	70

22. The following data based on 450 students one given for marks in statistics and Economics at a certain examination.

	Statistics	Economics
Mean marks	40	48
Standard deviation	12	16

sum of the products of deviation of marks from their respective mean is 42,075 give the equation to the two lines of regression.

23. Explain the important factors in the construction of Index number and list down the uses of Index number.
 24. Explain the main components of time series analysis.

B.A. DEGREE EXAMINATION, NOVEMBER 2018
I Year II Semester
Core Major- Paper IV
STATISTICS FOR ECONOMISTS-II

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. What is Random Sample?
2. What is the meaning of stratified sampling?
3. What is Correlation?
4. What is the meaning of rank correlation?
5. Define Regression analysis .
6. What is regression curve?
7. Define Index number.
8. Construct an index number for 2002 taking 2001 as base.

Commodity	A	B	C	D
Prince in 2001	90	40	90	30
Prince in 2002	95	60	110	35

9. What is called as a time series?
10. What is known as secular trend?
11. What is known as co efficient of correlation?
12. What is the meaning of seasonal variation?

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. What are the merits of simple random sampling?
14. Calculate rank correlation co efficient from the following ranks

Ranks in subject-I	1	2	3	4	5	6	7	8	9	10
Ranks in subject-II	2	4	1	5	3	9	7	10	6	8

15. Write down the uses of regression analysis.

16. Calculate Laspeyre's Index number for the following data.

	Base year		Current year	
Bread	10	3	8	3.25
Meat	20	15	15	20
Tea	2	25	3	23

17. Draw a trend line by the method of semi-averages.

Year	2007	2008	2009	2010	2011	2012
Sales (in 1000)	60	75	81	110	10	120

18. What are the sources of sampling errors ?
 19. What are the uses of time series analyses.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Describe different methods of sampling.
 21. Find out the co efficient of correlation in the following case.

Height of father (in inches)	65	66	67	67	68	69	71	73
Height of son (in inches)	67	68	64	68	72	70	69	70

22. The following data based on 450 students one given for marks in statistics and Economics at a certain examination.

	Statistics	Economics
Mean marks	40	48
Standard deviation	12	16

sum of the products of deviation of marks from their respective mean is 42,075 give the equation to the two lines of regression.

23. Explain the important factors in the construction of Index number and list down the uses of Index number.
 24. Explain the main components of time series analysis.