

**B.A. DEGREE EXAMINATION, NOVEMBER 2019**  
**I Year II Semester**  
**Statistics for Economists - II**

**Time : 3 Hours**

**Max.marks :75**

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

Answer any **TEN** questions

1. What is Sampling?
2. Mention any two Sampling Errors.
3. Write a short note on - 'Correlation'.
4. Define Rank Correlation.
5. What is Regression?
6. Point out any two types of Regression analysis.
7. What is Price Index?
8. Write the Paache's Index formula.
9. Mention the types of times series data.
10. What is a seasonal variation?
11. What is Standard Error?
12. What is Scatter Diagram?

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

Answer any **FIVE** questions

13. Describe the objectives of Sampling.
14. What are the uses of Correlation in Social Sciences?
15. Calculate the correlation co-efficient between the height of father and height of son From the given data.

Height of Father (in inches) : 64 65 66 67 68 69 70

Height of Son (in inches) : 66 67 65 68 70 68 72

16. Discuss the Practical Utility of Regression analysis in social sciences.
17. The following table gives the age of Cars of a certain model and annual maintenance costs. Obtain the regression equations costs of related to age.

Age of Cars (in Years) : 2 4 6 8

Maintenance Costs (in thousand Rs.) : 10 20 25 30

18. What are the Characteristics and uses of Index Numbers?
19. Discuss the merits and demerits of Least Square Method.

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

Answer any **THREE** questions

20. Explain the types of Sampling.
21. Calculate Pearson's Co-efficient of correlation between Advertisement Cost and Sales as per the data given below.

Cost (in thousand Rs) :	39	65	62	90	82	75	25	98	36	78
Sales (in lakh Rs) :	47	53	58	86	62	68	60	91	51	84
22. Distinguish between Correlation and Regression
23. Explain the Problems in Construction of Index Numbers.
24. Explain the Utility of Time Series Analysis.

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