THIRD SEMESTER BA DEGREE EXAMINATION, NOVEMBER 2022
(Regular/Improvement/Supplementary)
ECONOMICS
GECO3B03T: QUANTITATIVE METHODS FOR ECONOMIC ANALYSIS - I

Time: 2 ½ Hours   Maximum Marks: 80

SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 25 Marks)

1. State three uses of statistics?

2. What are grouped and ungrouped frequency distributions?

3. For a distribution with mean = 15, median = 12 and mode = 10. Comment on the skewness of the distribution.

4. Define normal curve.

5. What is meant by relative measure of dispersion? Name them.

6. Give the normal equations for straight lines.

7. How do you interpret the values of the correlation coefficient?

8. Define mean deviation.

9. Why index numbers are called specialized averages?

10. Comment on scatter diagram.

11. Explain the terms of base year and current year.

12. What is time reversal test?

13. Define standardized death rate.

14. What do you mean by sex ratio?

15. Define infant mortality rate.

SECTION B: Answer the following questions. Each carries *five* marks
(Ceiling 35 Marks)

16. Define primary data. Explain the methods for collecting it.

17. Distinguish between bar diagram and histogram.

18. Explain the graphical determination of quartiles.

19. Give the expressions for different measures of skewness and their interpretations.

20. Distinguish between correlation and regression.

                                                         (PTO)

21. Explain the method of identifying the regression lines.

22. Describe various methods of constructing weighted aggregate index numbers.

23. Examine whether Laspeyer's formula, Paasche's formula and Fisher's formula satisfy Factor Reversal Test.

SECTION C: Answer any 2 question. Each carries *ten* marks.

24. Compute the median for the following data.

classes	15-19	20-24	25-29	30-34	35-39	40-44
frequency	4	20	38	24	10	4

25. Calculate the rank correlation coefficient.

Marks(A)	35	15	30	22	12	5	28	18	41	4
Marks(B)	39	25	22	28	12	17	18	19	34	16

26. What is meant by trend? Describe in detail the methods for finding trend.

27. What are fertility rates? Explain the different kinds of fertility rates.

(2 x 10 = 20 Marks)