

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.A.DEGREE EXAMINATION –ECONOMICS

THIRD SEMESTER – APRIL 2018

EC 3502– QUANTITATIVE TOOLS FOR ECONOMICS

Date: 07-05-2018
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART-A

Answer any FIVE Questions each in about 75 words:

(5 x 4 = 20 Marks)

1. Describe the importance of statistics.
2. Explain the types of classification of data.
3. Explain uses and limitations of Range.
4. State the importance of the study of correlation analysis.
5. Explain the significance of time series analysis
6. Mention the parts of a frequency table
7. What are the uses of index numbers?

PART-B

Answer any FOUR Questions each in about 250 words:

(4 x 10 = 40 Marks)

8. Define statistics. Explain the use of statistics in other fields of studies.
9. Describe the various methods that are used in the collection of primary data.
- 10 Calculate the Mean deviation from the following data.

Marks : 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80

No. of Students : 5 8 12 15 20 14 12 6

11. Illustrate the different types of correlation.
12. Explain the problems faced in the construction of an index number.
13. Find the standard deviation from the following data.

Age : 20-25 25-30 30-35 35-40 40-45 45-50

No. of persons : 170 110 80 45 40 35

14. Construct Fisher's ideal index number for the following data and test whether it satisfies the time and factor reversal tests.

Commodities	2015		2016	
	Quantity	Price	Quantity	Price
M	20	12	30	14
N	13	14	15	20
O	12	10	20	15
P	8	6	10	4
Q	5	8	5	8

PART-C

Answer any TWO Questions each in about 900 words: (2 x 20 = 40 Marks)

15. Discuss the different types of diagrams used in presentation of statistical data.

16. Calculate Karl Pearson's coefficient of Skewness from the following data.

Marks : 10-15 15-20 20-25 25-30 30-35 35-40 40-45 45-50

Frequency : 8 16 30 45 62 32 15 6

17. From the following data obtain the two regression equations.

X : 25 28 35 32 31 36 29 38 34 32

Y : 43 46 49 41 36 32 31 30 33 39

18. Discuss the four basic components of time series analysis.
