



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.A. DEGREE EXAMINATION – ECONOMICS

THIRD SEMESTER – APRIL 2017

EC 3502 - QUANTITATIVE TOOLS FOR ECONOMICS

Date: 02-05-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A (5 x 4 = 20 Marks)

Answer any FIVE Questions each in about 75 words

1. What are the functions of statistics?
2. Distinguish between primary and secondary data.
3. State the requisites for a good average.
4. List out the various measures of dispersion.
5. What are the uses of index numbers?
6. Define classification of data; state its different types
7. Explain the uses and limitations of range.

PART-B (4 x 10 = 40 Marks)

Answer any FOUR Questions each in about 250 words

8. Explain the importance of statistics, list out its limitations
9. Define tabulation; List out the essential features of a good frequency table
10. Calculate mean, median and mode from the following data.

Weight	: 100-110	110-120	120-130	130-140	140-150	150-160	160-170	170-180
Frequency	: 4	6	20	32	33	7	8	2

11. Explain the types of correlation with examples.
12. Briefly explain the four components of time series analysis
13. Diagrammatically illustrate the various types of bar diagrams
14. Find out 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

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

15. Discuss the various methods that are used in the collection of primary data and list out their merits and demerits

16. Calculate coefficient of Skewness based on quartiles and median from the following data

Variable	: 0 - 10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency:	12	16	26	38	22	15	7	4

17. From the following data obtain 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. Construct Index number for the following data by

- i) Fisher's method
- ii) Marshall-Edgeworth method

Commodity	2007		2008	
	Price	Quantity	Price	Quantity
A	2	8	4	6
B	5	10	6	5
C	4	14	5	10
D	2	19	2	13
