

## B.A/B.Sc. - 2nd Sem

(2721)

## Paper: Quantitative Techniques-II

Time Allowed: 2 hrs.

Max. Marks: 100

Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.

## SECTION A

1. Explain scope of statistics in Economics. What do you understand by data classification and tabulation.
2. Explain various types of graphic representation of data like pie charts, bar, histogram, polygon and ogive curves etc. with the help of examples.

## SECTION B

3. (i) Explain various measures of central tendency.  
(ii) Find the missing frequency, if the arithmetic mean is 28 of the data given below. Find the median of the series later

Profit in Rs.000	0-10	10-20	20-30	30-40	40-50	50-60
No. of shops	12	18	27	-	17	6

4. (i) What is dispersion? Discuss various measures of dispersion.  
(ii) A consignment of articles is classified according to the size of the articles as below. Find standard deviation and coefficient of variation.

measurement	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
frequency	4	6	18	42	45	31	20	8	6

## SECTION C

5. (i) Explain the significance of correlation. Explain various types of correlation.  
(ii) Find Karl Pearson coefficient of correlation and interpret it.

Expenditure	39	65	62	90	82	75	25	98	36	78
Sales	47	53	58	86	62	68	60	91	51	84

6. (i) Distinguish between correlation and regression. What are the uses of regression?  
(ii) Given the following data find two regression lines and standard error of the estimate.

X	52	63	45	36	72	65	47	25
Y	62	53	51	25	79	43	60	33

## SECTION D

7. (i) What do you understand by index numbers? What are the uses of index numbers?

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(ii) Given the data for 2009-10 and 2010-11, find Laspeyres , Pasches and Fisher index numbers.

	Commodity			commodity	
	A	B		A	B
P0	1	1	P1	2	4
Q0	10	5	Q1	5	2

8. (i) Explain various methods of measuring trend.

(ii) Below are the figures of production in a factory. Fit a straight line trend.

Year	2005	2006	2007	2008	2009	2010	2011
Production	80	90	92	83	94	99	92

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