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Register Number:

Name of the Candidate:

B.Com DEGREE EXAMINATION, December 2014

(COMPUTER APPLICATIONS)

(SECOND YEAR)

(PART - III)

**650: BUSINESS STATISTICS
(Old Regulations)**

Time: Three hours

Maximum: 100 marks

SECTION - A
Answer FIVE questions.

(5 × 8 = 40)

1. Discuss the various sources of Primary data.
2. Explain the need and usefulness of diagrammatic representation of statistical data.
3. What is skewness? Explain the main types of skewness.
4. What are the uses and limitations of time series analysis?
5. List out the difference between schedules and questionnaires.
6. The weights (in kilogram) of 15 students are as follows:
31,35,27,29,32,43,37,41,34,28,36,44,45,42,30.
Find the median. If the weight 44kg is replaced by 46Kg and 27Kg by 25Kg, find the new median.
7. Calculate the mean deviation about the mean from the following series:
15,20,17,19,21,13,12,10,17,9,12
8. Fit a trend line to the following data by the method of semi-averages:

Year	1986	1987	1988	1989	1990	1991	1992
Output (Units)	600	800	1000	800	1200	1000	1400

SECTION - B
Answer any THREE questions.

(3 × 20 = 60)

9. Calculate Karl Pearson's coefficient of correlation for the data given below:

Independent variable X:	3	7	5	4	6	8	2	7
Dependent Variable Y:	7	12	8	8	10	13	5	10

10. The annual production of a commodity is given as follows: Find straight line trend by method of least squares. Predict production for 2001.

Year	1990	1991	1992	1993	1994	1995	1996
Production (intones)	70	80	90	95	102	110	115

11. The following table shows weekly wages drawn by a number of workers in a factory.

Weekly wages	0-20	20-30	30-40	40-50	50-100
No of workers	40	39	34	30	45

Calculate: a) Mean deviation b) Quartile deviation c) Standard deviation.

12. Define graph. What are the main advantages of a graph? Describe the various types of graphs and their uses. What are the important points to be considered in the preparation of graphs?
13. "Index numbers are the parameters of economic activity" Explain.

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