

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

B.Com.(P) (2011 & Onward) (Sem.-4)

BUSINESS STATISTICS

Subject Code : BCOP-204

Paper ID : [B1120]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.**

SECTION-A

1. Write briefly :

1. What is a scatter diagram?
2. Distinguish between positive and negative correlation.
3. Describe the various components of time-series.
4. What do you mean by analysis of time-series?
5. Which is the better measure of central tendency, mean, median or mode?
6. What does skewness and kurtosis signify about the shape of data?
7. What are the assumptions of regression analysis?
8. What is the difference between moving averages and exponential smoothing?
9. Under what situation two regression lines coincide?
10. What are limitations of statistics?

SECTION-B

2. What are the various methods of collecting primary data? Give examples of each with relative merits and demerits.
3. Distinguish between a simple frequency distribution and a cumulative frequency distribution with the help of a suitable example. What purpose does a cumulative frequency distribution curve serve?
4. a) Explain the tools that can be used to describe the shape of distribution of data. Also discuss their relationship with measures of central tendency.
b) Find the skewness of the distribution of following data and point out any outliers.

81	68	70	100	94	47	66	70	82
110	105	60	21	70	66	90	78	85

5. What is skewness? How does it differ from dispersion? Describe the various measures of skewness?
6. Define correlation and discuss its significance in statistical analysis. Does it signify the cause and effect relationship between two variables? If not, why?
7. What is time-series data? Explain various time-series forecasting techniques.