

Unit IV

8. Define Index Number. Explain the problems of constructing index numbers. What are the uses of index number in business ?
9. Fit a straight line trend to the following data and estimate the likely profit for the year 1986. Also calculate various trend values :

Year	Profit (in lacs of Rupees)
1977	60
1978	72
1979	75
1980	65
1981	80
1982	85
1983	95

Roll No.

Exam Code : J-19

Subject Code—0773

B. B. A. (Second Year) EXAMINATION

(Batch 2018 Onwards for Lateral Entry)

BUSINESS STATISTICS

BBA-202

Time : 3 Hours

Maximum Marks : 70

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. Explain the following :

- (a) Frequency distribution
- (b) Bar Chart
- (c) Mode
- (d) Skewness
- (e) Scatter diagram
- (f) Cyclic Trend
- (g) Partial Correlation.

Unit I

2. Define Statistics. Discuss its scope and limitations.
3. What is Classification ? Explain the types of classification. What are the objectives of classifications ?

Unit II

4. What is meant by Central Tendency ? Explain the popular measures of central tendency along with their merits and demerits.
5. The following table gives the distribution of daily wages of 900 workers. However the frequency of the classes 40-50 and 60-70 are missing. If the median of the distribution is Rs. 59.25, find the missing frequency :

Wages (Rs.)	No. of Workers
30-40	120
40-50	?
50-60	200
60-70	?
70-80	185

Unit III

6. Explain the concepts of correlation and regression. What are the types of correlation ? Explain the methods of studying correlation.
7. From the following data, obtain the two regression equations :

Sales	Purchases
91	97
97	75
103	69
121	97
67	70
124	91
52	39
73	61
111	83
57	47