

Roll No. 185901005016 [Total No. of Pages : 4

BBA-2075

B. B. A. (Third Semester)

EXAMINATION, 2020

BUSINESS STATISTICS

Time : Three Hours

Maximum Marks : 70

Note : Attempt questions from both Sections as directed.

Section—A

(Short Answer Type Questions)

Note : Attempt any *seven* questions. Each question carries 4 marks. $7 \times 4 = 28$

1. Explain the advantages of graphical presentation of data.

P. T. O.

2. Define the term Correlation.
3. Discuss different types of correlation with suitable examples.
4. Discuss the problems faced while constructing an index number.
5. What is Secular Trend ? Discuss any one method of isolating trend values in a time series.
6. Point out the importance of sampling in solving business problem.
7. Explain the difference between statistics and parameter as used in sampling theory.
8. What are essentials of a good sample ?
What are the main steps involved in a sample survey ?
How are Index Numbers constructed ? Discuss.

Section—B

(Long Answer Type Questions)

Note : Attempt any *three* questions. Each question carries 14 marks. $3 \times 14 = 42$

1. Calculate the correlation coefficient from the following data :

X	Y
13	1
15	3
17	3
20	4
25	4

2. From the following data, obtain two regression equations :

Sales	Profit
10	3
15	4
20	5
25	6
30	7

3. Fit a straight line trend by the method of semi-average from the following time series data :

Year	Sales
2010	100
2011	125
2012	150
2013	175
2014	200
2015	200
2016	220
2018	230
2019	250

4. Explain the terms classification and tabulation and point out their importance in statistical investigation.
5. Define rank correlation coefficient. When is it preferred to Karl Pearson's coefficient of correlation ?