Roll No. ....

57516

BBA 2nd Semester (N. S.) 2014-17
Examination – May, 2019

BUSINESS STATISTICS

Paper : BBAN-206

Time : Three Hours]	[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *compulsory* Question No. **1** from Section – **A** and *four* questions from Section – **B** (*One* question from each Unit). All question carry equal marks.

SECTION – A

1. Briefly explain the following :

   (a) Importance of statistics

   (b) Objectives of classification

   (c) Harmonic mean

   (d) Measures of variation

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(e) Rank corelation

(f) Equation of Y on X

(g) Consumer price index

(h) Cyclical variations

SECTION – B

UNIT – I

2. Discuss the evolution, scope and applications of statistics.

3. Explain the meaning, types and advantages of tabulation. Also show the parts of a table.

UNIT – II

4. Find the values of arithmetic mean, median, Q_3 and mode for the following distribution :

x	5-15	15-25	25-35	35-45	45-55	55-65	65-75
f	12	18	28	42	20	12	8

5. Describe different measures of variation. Why is standard deviation the most widely used measure ?

UNIT – III

6. Explain the meaning, types and significance of correlation. Does it always signify cause and effect relationship ?

7. Obtain the regression equations for the following series :

X	71	89	75	80	56	76	92	88	49
Y	123	130	116	132	96	120	136	97	85

Estimate the value of (i) X if Y = 111 and (ii) Y if X = 79

UNIT – IV

8. From the following data, compute Laspeyre's, Paasche's, Fisher's and Marshal-Edgeworth price indices from the following data :

Commodity	P_0	q_0	p_1	q_1
A	6	50	10	56
B	2	100	2	120
C	4	60	6	60
D	10	30	12	24
E	8	40	12	36

Also find value index number.

9. Discuss the meaning and importance of time series analysis. Also describe the components of a time series.

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