2 71 89 75 80 56 92 126 136 123 130 116 133 130 116 133 130 116 133 130 111 and (ii) Y. Congression the local control of the local cont

Roll No. .....

# 57516

X do Y io codse (1)

# 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

57516-3,550-(P-3)(Q-9)(19)

P. T. O.

5 Explain the meening

- (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 reaning, 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
1	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?

57516-3,550-(P-3)(Q-9)(19) (2)

7. Obtain the regression equations for the following series:

		1.							
X	71	89	75	80	56	76	92	88	49
2/	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 <sub>1</sub>	$q_1$
A	6	50	10	56
В	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.

57516-3,550-(P-3)(Q-9)(19)