

**B.B.A. SEM – II (2015 CBCS Course) : SUMMER - 2019**

**SUBJECT: BUSINESS STATISTICS-I**

Day: Saturday  
Date: 27/04/2019

**S-2019-1953**

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

**N.B.:**

- 1) Answer **ANY FOUR** questions from **Section I**. Each question carries **15** Marks.
- 2) Answer **ANY TWO** questions from **Section II**. Each question carries **20** Marks.
- 3) Answers to Both the sections to be written in **SAME** answer books
- 4) Draw a labeled diagram **WHEREVER** necessary
- 5) Use of non-programmable calculator is **ALLOWED**.

**SECTION - I**

Q.1) Answer the following: (15 Marks X 1 = 15 Marks)

What do you mean by Statistics? Elaborate how statistical data and statistical methods are useful in solving various business problems.

Q.2) Answer the following: (15 Marks X 1 = 15 Marks)

Draw the Histogram and frequency polygon for the following data.

Wt.in lb	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100-110
frequency	12	20	25	40	46	62	48	32	12

Q.3) Answer the following: (15 Marks X 1 = 15 Marks)

Calculate First Quartile, Third Quartile and Third Decile for the following data.

Classes	0-10	10-20	20-30	30-40	40-50
Frequency	5	12	28	21	10

Q.4) Answer the following: (15 Marks X 1 = 15 Marks)

Compute Quartile Deviation and Coefficient of Quartile Deviation for the following data.

Classes	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	10	18	25	33	50	41	29	14

Q.5) Answer the following: (15 Marks X 1 = 15 Marks)

What is an Index Number? Describe the procedure followed in the construction of Index numbers.

Q.6) Write short notes on the following: Attempt **ANY THREE** (5 Marks X 3 = 15 Marks)

- a) Statistical Enquiry
- b) Ogive Curves
- c) Geometric mean
- d) Skewness and Kurtosis
- e) Importance of Index numbers

## SECTION - II

Q.7) Answer the following: (20 Marks X 1 = 20 Marks)

Discuss different methods of data collection with suitable examples.

Q.8) Answer the following: (20 Marks X 1 = 20 Marks)

Calculate mean deviation from median and standard deviation for the following distribution.

Age(Years)	25-30	30-35	35-40	40-45	45-50	50-55
No. of workers	15	30	46	28	20	10

Q.9) Answer the following: (20 Marks X 1 = 20 Marks)

What is Statistical Quality Control? Explain its advantages and limitations.

\*\*\*\*\*