

**M.B.A. (GEN.) SEM-I / M.B.A.(HR) SEM-I (2016 Course) CBCS :
SUMMER - 2019**

SUBJECT: STATISTICAL TECHNIQUES

Day: Friday
Date: 03/05/2019

S-2019-2184

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

- 1) Answer ANY THREE questions from Section I. Each question carries 10 Marks.
- 2) Answer ANY TWO questions from Section II. Each question carries 15 Marks.
- 3) Answers to Both the sections to be written in **SAME** answer books.
- 4) Draw a labeled diagram WHEREVER necessary.

SECTION - I

Q.1) Answer the following : (10 Marks X 1=10 Marks)

Find mean and median from the following data:

Wages in Rs.	240	245	250	255	260	265	270	275
No.of workers	12	25	56	85	54	25	18	05

Q.2) Answer the following: (10 Marks X 1=10 Marks)

Find Karl Pearson's Coefficient of Correlation from the following data. Interpret the result.

Price in Rs. Per Kg	10	12	14	16	18	20	22	24
Demand in Kg	100	110	108	96	88	85	80	78

Q.3) Answer the following: (10 Marks X 1=10 Marks)

From the following regression equations, find

- i) both regression coefficients
- ii) mean values of x and y

$$4x-5y+30=0$$

$$20x-9y-107=0$$

Q.4) Answer the following : (10 Marks X 1=10 Marks)

Define Attribute. Explain two attributes and three attributes with examples.

Q.5) Write short notes on the following: Attempt ANY TWO (5 Marks X 2 = 10 Marks)

- a) Application of correlation in Business and Management
- b) Significance of regression analysis
- c) Measures of Dispersion
- d) Types of Decision

SECTION - II

Q.6) Answer the following : (15 Marks X 1=15 Marks)

Draw histogram, frequency polygon and ogive curves for the following frequency distribution:

Weight in lb	80-89	90-99	100-109	110-119	120-129	130-139	140-149
Frequency	8	16	20	26	50	13	5

Q.7) Answer the following : (15 Marks X 1=15Marks)

The daily wages of 1,000 workmen are normally distributed around a mean of Rs. 70 and with a standard deviation of Rs. 5. Estimate the number of workers whose daily wages will be:

- i) between Rs. 70 and 72
- ii) between Rs. 69 and 72
- iii) more than Rs. 75

Q.8) Answer the following : (15 Marks X 1=15 Marks)

What is statistics? Discuss its importance in management domain by citing examples.
