

MASTER OF BUSINESS ADMINISTRATION (C.B.C.S.) (2016 COURSE)
M.B.A. Sem - I : WINTER : 2021
SUBJECT: STATISTICAL TECHNIQUES

Day : Saturday
Date : 15-01-2022

W-15386-2021

Time : 10:00 AM-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 should be written in SAME answer book.
- 4) Draw a labeled diagram WHEREVER necessary.

SECTION - I

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

Define Statistics. Explain importance of statistics in business domain.

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

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

X	10	12	14	16	18	20	22	24
Y	100	110	108	96	88	85	80	78

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

From the following data, find regression equation of X on Y. Hence estimate the value of X when Y=90.

X	10	12	14	16	18	20	22	24	26	28
Y	21	25	29	33	37	41	45	49	53	57

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

Explain decision making under risk and uncertainty.

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

- a) Binomial Distribution
- b) Association of Attributes
- c) Process of decision making

SECTION - II

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

Draw a histogram, frequency polygon and frequency curve from the following data;

Classes	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	5	10	12	28	20	24

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

Find standard deviation from the following data

Classes	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	12	35	42	68	52	40	26

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

Explain the following:

- i) Measures of Dispersion.
- ii) Coefficient of Variation
- iii) Cumulative frequency curves
