Paper Code: MBA3105
School of Management, BBD University
Program: IMBA Sem: III
First Sessional Test Paper Odd Sem (2023-24)
Subject: Business Statistics
Time: 60 Minutes Max. Marks: 30

SECTION-A

(This section contains very short answer type questions)

Q. No. 1. Attempt *All parts* of the following: [5*1 = 5]

a) Find the mode for the following data:
1, 2, 2, 2, 4, 5, 6, 6, 8, 6
b) Find the median for the following data:
85, 69, 74, 60, 59, 84
c) Define Linear Correlation.
d) What is Simple Correlation?
e) Define Skewness.

SECTION-B

Q.No.2. Attempt *any Two* of the following: [7.5*2 = 15]

a) Calculate the arithmetic mean from the following frequency distribution:

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	10	9	25	30	16	10

(any method)
b) Explain the merits and demerits of Median.
c) Differentiate between Positive and Negative Correlation.
d) Calculate median from the following data:

X:	10	20	30	40	50	60	70
f:	1	5	12	20	19	9	4

SECTION-C

Q.No.3. Attempt any *One of* the following: [10*1 = 10]

a) Calculate standard deviation of the following marks obtained by 5 students:
Marks obtained : 8 12 13 15 22
Also find the coefficient of variation for above data.
b) Explain the concept of Correlation with examples.
c) Discuss about the Kurtosis in detail.