

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]

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

SECTION-B

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

- 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)
- Explain the merits and demerits of Median.
- Differentiate between Positive and Negative Correlation.
- 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]

- 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.
- Explain the concept of Correlation with examples.
- Discuss about the Kurtosis in detail.