



ST. FRANCIS DE SALES COLLEGE

A FRANSALIAN INSTITUTE OF HIGHER EDUCATION **AUTONOMOUS**

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END SEMESTER EXAMINATION – APRIL/MAY 2026

BUSINESS ADMINISTRATION – II SEMESTER BBA

24BBA26A: DATA ANALYSIS FOR BUSINESS DECISIONS

(REPEATERS)

Time: 3 Hours

Max. Marks: 80

Instruction: Answer should be written completely in English

SECTION – A

1. Answer any **SEVEN** questions. Each question carries **TWO** marks.

(7X2=14)

- Define Arithmetic Mean.
- What is Standard Deviation?
- Define Correlation.
- What is Regression?
- Define Time Series.
- What is a Moving Average?
- Define Probability.
- What are mutually exclusive events?
- State the addition law of probability.
- Give the formula for Spearman's Rank correlation when ranks are repeated.

SECTION – B

Answer any **THREE** questions. Each question carries **EIGHT** marks.

(3X8=24)

- Explain the importance and limitations of Statistics.
- From the following data, calculate the median

Age	No of Persons
0-10	2
10-20	3
20-30	4
30-40	5
40-50	2
50-60	1
60-70	2
70-80	1



4. Calculate Spearman's rank correlation coefficient between X and Y

X	Y
57	19
16	6
24	9
65	20
16	4
16	15
9	6
40	24
48	13
33	13

5. Briefly explain the components of a time series.
6. Explain the addition and multiplication laws of probability with examples.

SECTION – C

Answer any **THREE** questions. Each question carries **FOURTEEN** marks. (3X14=42)

7. Explain the types, classification, and presentation of data in Statistics.
8. Calculate the Arithmetic mean from the following data.

Class interval	Frequency
0-5	18
5-10	19
10-15	20
15-20	18
20-25	16
25-30	14
30-35	27
35-40	25
40-45	19
45-50	17

9. From the following data, calculate Karl Pearson's coefficient of correlation.

X	Y
2	5
4	7
6	9
8	8
10	11



10. From the following table:

- a. Fit a straight-line trend by the method of least squares.
- b. Calculate the trend values.

Year	1990	1991	1992	1993	1994	1995	1996
Production (in '000 tonnes)	12	10	14	11	13	15	16

11. Explain the concept of probability, conditional probability, and independent events in detail.

