



ST. FRANCIS DE SALES COLLEGE

A FRANSALIAN INSTITUTE OF HIGHER EDUCATION **AUTONOMOUS**

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END SEMESTER EXAMINATION – APRIL/MAY 2026

COMMERCE - II SEMESTER B.COM (Repeaters)

24BCO26A: BUSINESS DATA ANALYSIS

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)
- State any two features of Statistics.
 - What is Raw Data? Give an example.
 - What are the types of data presentation?
 - Give one example each of a quantitative and a qualitative variable.
 - Why is tabular presentation preferred over textual presentation?
 - List the types of averages studied in statistics.
 - Mention any two requisites of a good average.
 - Mention any two properties of a good measure of variation.
 - What is the Time Reversal Test?
 - In 2010, the cost of a basket of goods was ₹2,000. In 2020, it is ₹2,600. Calculate the index number using the Simple Aggregative Method.

SECTION – B

Answer any **THREE** questions. Each question carries **EIGHT** marks. (3X8=24)

- Explain the objectives of statistics with example.
- Draw the pie diagram for the following data:

Food	12.90%
Clothing	12.50%
Oil	27.20%
Ghee	15.40%
Transport	15.90%
Social Service	16.10%

- Following are the marks obtained by students of a class in statistics. Calculate arithmetic mean.

Marks (x)	35	40	45	50	55	60	65	70	75	80	85	90	95
No. of Students (f)	3	8	12	9	4	7	15	5	10	7	5	3	2

- Find S.D and C.V. for the following data.

X	8	10	17	20	25	35
F	2	4	5	3	4	6



6. Calculate the cost-of-living index number from the following data

Item	Food	Fuel	Clothing	House Rent	Miscellaneous
Price in 2024	39	8	14	12	25
Price in 2025	47	12	18	15	30
Weight	4	1	3	2	1

SECTION - C

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

7. Suppose you are a data analyst working for a retail company that wants to understand its customers' buying behavior. Differentiate between primary and secondary data, and explain the methods of collecting primary data that would be suitable for this study. Support your answer with illustrations.
8. The city of Timbuktu was divided into three areas viz., administrative district, urban district and rural district, a survey of housing conditions was gathered. There were 677100 buildings in a city of which 176100 were in rural district, of the building in urban district, 406400 were inhabited and 4500 were under construction. In the administrative district, 4000 buildings in the city were uninhabited and 500 were under construction of the total 61600, the total number of buildings in the city under construction 62000 and uninhabited was 44500. Tabulate the above information.
9. Calculate arithmetic mean for the following data:

Marks (x)	No. of Students
Less than 20	10
Less than 30	18
Less than 40	25
Less than 50	32
Less than 60	43
Less than 70	61
Less than 80	67
Less than 90	85
Less than 100	100

10. Compute the Pearson's co-efficient of skewness from the following.

Wages	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Persons	15	10	18	12	10	5	2

11. Compute Fisher Ideal Index number and show that it satisfies TRT and FRT

Commodities	Base Year (Price)	Current Year (Quantity)	Current Year (Price)	Base Year (Quantity)
M	12	100	20	112
N	4	200	4	240
O	8	120	12	120
P	20	60	24	48
Q	16	80	24	52

