



ST. FRANCIS DE SALES COLLEGE

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END SEMESTER EXAMINATION – APRIL/MAY 2026

COMPUTER SCIENCE – IV SEMESTER BCA

25BCA46.2 – DATA SCIENCE – DATA VISUALIZATION

Time: 1 Hour 30 Minutes

Max. Marks: 40

Instruction: *Answer should be written completely in English.*

SECTION - A

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

(2X2=4)

1. Name the four basic types of charts used in data visualization.
2. Distinguish between narrative and context in data story telling.
3. What is Data Exploration?
4. What is AI-driven Visualization?

SECTION - B

Answer any **FOUR** questions. Each question carries **FIVE** marks.

(4X5=20)

5. Explain the role of data visualization in decision making with suitable examples.
6. Explain the steps involved in data visualization.
7. Analyze the differences between Excel, Tableau, and Power BI as data visualization tools.
8. Explain the importance of color in data visualizations.
9. What are the advantages and disadvantages of using Python for data visualization compared to other tools?
10. Discuss the importance of data modelling in visualization.

SECTION - C

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

(2X8=16)

11. List and describe the different types of data used in data visualization. Give two examples for each type.
12. Differentiate between Data Transformation and Data Cleaning.
13. Explain the importance of interactivity in a dashboard.
14. Describe the key principles of designing a good data visualization.

