



SE – 542

IV Semester B.C.A. (Data Science) Examination, June/July 2026
(SEP 2024 – 25)
COMPUTER APPLICATION
24BCAE2 : Data Visualization

Time : 1½ Hours

Max. Marks : 40

Instruction : Answer all the Parts.

PART – A

- I. Answer **any five** questions. **Each** question carries **two** marks. (5×2=10)
- 1) What is Data Visualization ?
 - 2) What is the role of visualization in decision making ?
 - 3) Define data exploration.
 - 4) What is a Dashboard ?
 - 5) Define data interpretation.
 - 6) What is data modeling ?

PART – B

- II. Answer **any four** questions. **Each** question carries **five** marks. (4×5=20)
- 7) Explain the importance of data visualization in real-world applications.
 - 8) Explain different types of data with an example each.
 - 9) How Python is used for data visualization ?
 - 10) Enumerate the principles of data storytelling.
 - 11) Explain the use of color in visualization and its impact on user understanding.
 - 12) How does data modelling contribute to effective visualization ?

PART – C

- III. Answer **any one** question. **Each** question carries **ten** marks. (1×10=10)
- 13) Discuss the challenges and limitations of data visualization in detail.
 - 14) Differentiate Excel, Tableau, Power BI and Python based on features and use cases.
-

