



SDCCA406

IV Semester B.C.A. (DS) Degree Examination, June/July - 2026

(SEP Scheme Freshers)

COMPUTER APPLICATIONS

Data Visualization

Time : 3 Hours

Maximum Marks : 80

Instructions :

Answer All the Sections.

SECTION - A

I. Answer any Ten questions. Each question carries 2 marks. (10×2=20)

1. Define Data Visualization.
2. Define charts and graphs with examples.
3. What is data acquisition?
4. Define scatter plots with examples.
5. What is data filtering?
6. Mention any two simple charts.
7. Define Matplotlib.
8. What is histograms?
9. What is a Dashboard?
10. Define analysis goals of Data Visualization.
11. What is data storytelling?
12. How sorting techniques is useful in Visualization.

SECTION - B

II. Answer any Six questions. Each question carries 5 marks. (6×5=30)

13. Explain principles of effective Data Visualization.
14. Discuss Exploration and Analysis in Data Visualization.
15. Explain creating and customizing simple charts with an examples.
16. Briefly discuss Exploring and Sharing.
17. Explain how to create interactive visualizations using python.
18. What is Geospatial? Explain.

[P.T.O.]



19. Write a note on accessibility.
20. Explain narratives through visualization.

SECTION - C

III. Answer any Three questions. Each question carries 10 marks. (3×10=30)

21. Discuss ethical considerations and best practices in data visualization.
 22. Explain any two visualization tools with examples.
 23. Write notes on
 - a) Box plots
 - b) Violin plots.
 24. What is critique and evaluation of data visualizations and explain.
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