



Roll No

**PRESIDENCY UNIVERSITY
BENGALURU**

School Of Computer Science and Engineering & Information Science

End-Term Examinations, Aug 2024 (Set1)

Fourth Semester (4LCA) B.Tech Lateral Entry

Odd Semester: 2023 - 24

Course Code: CSE2026

Course Name: Data Handling and Visualization

Department: CSE

Date: 14-08-2024

Time: 09.30am to 12.30pm

Max Marks: 100

Weightage: 50%

Instructions:

- (i) Read the all questions carefully and answer accordingly.
(ii) Do not write any matter on the question paper other than roll number.

Q. No	Questions	Marks	CO	RB T
1	a. What is Primary Data Collection in terms of Data Handling Analysis	4	CO1	L1
	b. Explain about Removing Duplicates using Data Transformation	6	CO1	L2
	c. Explain about Data Cleaning and the Steps involved in Data cleaning process	10	CO1	L3

OR

2	a. What are the Benefits of Quantitative Data Collection	4	CO1	L1
	b. Explain about Transforming Data Using a Function or Mapping	6	CO1	L2
	c. Explain the overview of Data in the Real World used in Data Handling and Visualization.	10	CO1	L3

3	a. What is Tree map in Data Handling and visualization?	4	CO2	L1
	b. Explain Methods for using Choropleth Maps with an example in context with Data Analysis.	6	CO2	L2
	c. Discuss about Transfer Functions in scalar Visualization. With a neat diagram.	10	CO2	L3

OR

4	a. Write the difference between space-filling and non-space-filling	4	CO2	L1
	a. Discuss the importance of time-oriented data visualization and explain how it can be effectively implemented in the analysis of financial trends over a decade. Include specific graphical techniques and tools that might be used.	6	CO2	L2
	b. Provide a thorough analysis of how spatial data visualization can enhance decision-making processes in environmental science, specifically in tracking climate change effects.	10	CO2	L3

5	a. What is Time Series Data in Data Analysis?	4	CO3	L1
	b. Explain any two Types of Multivariate Data Visualization?	6	CO3	L2
	c. Explain Text Data Visualization Write a program to Display Wordcloud graph in python using netflix_titles.csv	10	CO3	L3

OR

6	a. Explain any two Text Data Visualization Examples?	4	CO3	L1
	b. Explain about WordArt in Text Data Visualization	6	CO3	L2
	c. Explain any four types of Multivariate Data Visualization with an example each.	10	CO3	L3

7	a. What is Data Streaming in data analysis?	4	CO4	L1
	b. Write the difference between Database Management System and Data Stream Management system.	6	CO4	L2
	a. Articulate a comprehensive discussion on the dos and don'ts of data visualization process.	10	CO4	L3

OR

8	a. What is Sensor Data in Data Streaming?	4	CO4	L1
	b. Discuss various streaming visualization techniques and their applications in monitoring network traffic. Explain the benefits and limitations of each technique in terms of scalability and real-time performance	6	CO4	L2
	c. Describe about Data Streams with a neat diagram of Generic Data Stream Management System Architecture	10	CO4	L3

9	a. What is the difference between Data Cleaning and Data Transformation?	4	CO1	L1
	b. Explain about Detecting and Filtering Outliers in Data Analysis	6	CO1	L2
	c. Discuss in detail about Pandas library of python in data visualization with an example.	10	CO1	L3

OR

10	a. Explain about Matplot library and different types of plots used in Matplot library .	4	CO2	L1
	b. Explain about Sunburst displays in Data Handling	6	CO2	L2
	c. Discuss about NumPy library of python in data visualization with an example.	10	CO2	L3