Roll No.										
----------	--	--	--	--	--	--	--	--	--	--



PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations - MAY 2025

School: SOCSE	Program: B Tech				
Course Code : CSE2026	Course Name: DATA HANDLING AND VISUALIZATION				
Semester: VI	Max Marks:100	Weightage:50%			

CO - Levels	CO1	CO2	CO3	CO4
Marks	24	24	26	26

Instructions:

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

Part A

Answer ALL the Questions. Each question carries 2marks.

 $10Q \times 2M = 20M$

1	State Date preparation in the context of data visualization	2 Marks	L2	CO1
2	List any two methods used for plotting graph in python libraries	2 Marks	L2	CO1
3	Define: Transfer Function	2 Marks	L2	CO2
4	Identify the types of mapping color models available in visualization	2 Marks	L2	CO2
5	List the difference between the Raster and Vector data visualization.	2 Marks	L2	CO3
6	Outline the python libraries used to analyse and visualize the time series data	2 Marks	L1	CO3
7	List out the Multivariate Data Visualization techniques	2 Marks	L1	CO3
8	Define : Streaming data	2 Marks	L1	CO4
9	List out the Challenges of Stream Data Processing	2 Marks	L2	CO4
10	Describe the Stream the sensor data and image data using visualization techniques.	2 Marks	L1	CO4

Part B Answer the Questions

Total 80 Marks.

	<u> </u>				
a.	Define data validation & Illustrate the levels on it.	10 Marks	L1		
b.	Explain Plotting Using pandas DataFrames, Displaying Figures and Saving Figures in Matplotlib.	10 Marks	L2	CO1	
	or				
a.	Define Data Science? Describe in detail with suitable example.	10 Marks	L1	CO1	
b.	Explain the need of Data Visualization and its importance.	10 Marks	L2	COI	
a.	Explain the Tools and libraries used for visualization with appropriate examples.	10 Marks	L2	602	
b.	Describe about the scalar visualization with examples.	10 Marks	L2	CO2	
	or				
a.	Explain about vector visualization techniques with own examples.	10 Marks	L2 CO2		
b.	Explain the different types of mapping color models	10 Marks	L2	COZ	
a.	Classify the spatial data visualization technology with their category and explain time series of data visualization with example.	20 Marks	L2	3 3	
i	Or	•		i	
а.	Explain any four types of multivariate data visualization in detail with diagrams.		L2	CO 3	
a.	Explain data-stream-management system with a neat architectural diagram. Compare DSMS with DBMS.	10 Marks	L2	СО	
b.	Use python code to visualize the streaming data by considering random data point in 2D space.	10 Marks	L3	4	
	Or				
a.	Explain about the Guidelines for designing successful visualizations.	10 Marks	L2	СО	
b.	Classify the do's and don'ts of data visualizations in detail		L3	4	
	b. a. b. a. b. a. b. a. b.	b. Explain the Tools and libraries used for visualization with appropriate examples. b. Explain about vector visualization technology with their category and explain time series of data visualization with example. c. Classify the spatial data visualization technology with diagrams. a. Explain about types of multivariate data visualization with examples. b. Explain any four types of multivariate data visualization in detail with diagrams. b. Explain data-stream-management system with a neat architectural diagram. Compare DSMS with DBMS. b. Explain about the Guidelines for designing successful visualizations. Classify the do's and don'ts of data visualizations in detail Classify the do's and don'ts of data visualizations in detail Classify the do's and don'ts of data visualizations in detail	b. Explain Plotting Using pandas DataFrames, Displaying Figures and Saving Figures in Matplotlib. Or a. Define Data Science? Describe in detail with suitable example. b. Explain the need of Data Visualization and its importance. 10 Marks b. Explain the Tools and libraries used for visualization with appropriate examples. b. Describe about the scalar visualization with examples. Or a. Explain about vector visualization techniques with own examples. b. Explain the different types of mapping color models Classify the spatial data visualization technology with their category and explain time series of data visualization with example. Or a. Explain any four types of multivariate data visualization in detail with diagrams. Or a. Explain data-stream-management system with a neat architectural diagram. Compare DSMS with DBMS. Describe about the Guidelines for designing successful marks Or Explain about the Guidelines for designing successful warks Or Explain about the Guidelines for designing successful Marks Classify the do's and don'ts of data visualizations in detail	befine data validation & Illustrate the levels on it. b. Explain Plotting Using pandas DataFrames, Displaying Figures and Saving Figures in Matplotlib. Or a. Define Data Science? Describe in detail with suitable example. b. Explain the need of Data Visualization and its importance. 10 Marks 12 a. Explain the Tools and libraries used for visualization with appropriate examples. b. Describe about the scalar visualization with examples. 10 Marks 12 Arrivation or a. Explain about vector visualization techniques with own examples. b. Explain the different types of mapping color models 10 Marks 12 Classify the spatial data visualization technology with their category and explain time series of data visualization with example. Or a. Explain any four types of multivariate data visualization in detail with diagrams. Or a. Explain data-stream-management system with a neat architectural diagram. Compare DSMS with DBMS. b. Use python code to visualize the streaming data by considering random data point in 2D space. Or Explain about the Guidelines for designing successful visualizations. Classify the do's and don'ts of data visualizations in detail 10 L3 L3	

***** BEST WISHES *****