Reg. N	NoName	25UP4026
	END SEMESTER EXAMINATION – MARCH 2025	
SEI	MESTER 8: INTEGRATED M. Sc. PROGRAMME IN COMPUTER SCIEN	CE – DATA SCIENCE
	COURSE: 21UP8CRMCP26: DATA VISUALIZATIO	N
	(For Regular 2021 Admission)	
Time:	Three Hours	Max. Weightage: 30
	PART A	
	Answer any 8	
1.	Differentiate between conformal projection and equal area projection.	(U)
2.	Draw a Keeling curve.	(R)
3.	Expand the D's in d3.	(R)
4.	Differentiate between delay() and duration() in D3.	(U)
5.	Mention the properties that are available for zooming data in C3.	(R)
6.	Give the properties to set the visibility and position of legends in a chart.	(U)
7.	List the advantages of tableau.	(An)
8.	State the significance of Show me tab in tableau.	(An)
9.	Define a dashboard.	(U)
10.	Give the syntax of adding a rectangle using svg element tag.	(A)
		(1 x 8 = 8 Weight)
	PART B	
	Answer any 6	
11.	Describe a slope graph with suitable diagrams.	(U)
12.	Explain the two methods for detrending time series data.	(An)
13.	Write short notes on time scaling functions with sample code.	(Cr)
14.	Write a program to explain how to load a csv file in D3 and also handle er	rors
	while loading.	(Cr)
15.	Write a program to draw a pie chart using C3.	(Cr)
16.	Write a program that shows loading a bar chart with two data series and	
	transforms into area chart and area spline charts in succession using C3.	(Cr)
17.	Discuss the major components of sheet view in tableau.	(R)
18.	Explain the steps involved in creating a dashboard.	(U)

PART C

Answer any 2

		5 x 2 = 10 Weight)
22.	Write a program to load/unload data as flowing in C3.	(Cr)
21.	Write a program that plots a scatterplot with axis using D3.	(Cr)
20.	Write a program that uses html div element tooltips in a bar chart with D3 libr	ary. (Cr)
19.	Explain visualizing distributions.	(An)