



QP CODE: 25024878



Reg No : .....

Name : .....

**M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025**

**Fourth Semester**

M Sc Computer Science (Data Analytics)

**CORE - CA030401 - DATA VISUALISATION**

2020 ADMISSION ONWARDS

169F100B

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. What are the commonly used aesthetics in data visualisation?
2. What is visualising proposition ?
3. Define cartograms.
4. Advantages of D3.
5. How updating data in D3?
6. What you mean by sub chart and zoom in D3 based reusable chart library.
7. How can you display the top five and bottom five sales in the same view?
8. What are the difference types of joins in Tableau ?
9. Can we use scatter plots to visualize relationships between numerical variables?
10. Why does Tableau use the model exponential smoothing?

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Explain different stages of Data visualisation.
12. Write a short essay on Histogram and Density plots.
13. Explain HTML div .
14. Explain transition in D3 with example.
15. Differentiate Dimensions and Measures.





16. Explain the Difference between Tableau Worksheet, Dashboard, story and Workbook.
17. Write down steps to create a waterfall chart with color.
18. How to create a dashboard in tableau?

(6×2=12 weightage)

### **Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Explain about data visualisation tools and different stages of data visualisation.
20. Explain scale and its types?
21. Explain Tableau metadata. How to change metadata in tableau?
22. Discuss different types of charts in tableau. What type of chart will be used to compare sales of two products? Explain.

(2×5=10 weightage)

