

QP CODE: 26801762



Reg No :

Name :

INTEGRATED M.Sc. DEGREE EXAMINATION, APRIL 2026

Eight Semester

INTEGRATED M.Sc. COMPUTER SCIENCE-DATA SCIENCE

CORE - ICSD8CR2 - DATA VISUALIZATION

2021 Admission Onwards

7DC6F860

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Recognize what kind of chart would you use to show monthly sales data?
2. Define geospatial data?
3. Explain the role of .rangeRoundBands() function do in D3.
4. Identify the difference between .duration() and .delay() in D3.
5. Which method is used to generate a chart in C3.js?
6. Explain the format is required to feed data into a C3.js chart.
7. Cite custom data view in Tableau.
8. Explain the use data blending instead of joins.
9. Review how can you ensure consistent font styling across all dashboard elements.
10. Describe the role of the dashed trend line indicated in Tableau.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain the seven stages of data visualization in brief.
12. Discuss the limitations of histograms in distribution analysis? How can density plots overcome them?
13. Explain the difference between domain and range with an example.
14. Demonstrate quantize and quantile scales in D3.





15. Identify what happens when you call `chart.hide(['data1'])`.
16. Explain how the Regions feature is used in C3.js.
17. Explain how to change a data type manually in Tableau and why it's important.
18. Compare scatter plots and bubble charts with use cases.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. You want to compare the prices of products and their customer ratings. Which chart will help? Describe how it works.
20. Discuss the advantages of binding data directly to elements using D3 rather than manually looping through data.
21. Explain how to change the chart type in C3.js from a bar chart to a line chart.
22. Explain how dynamic binning and calculated fields enhance the functionality of histograms and waterfall charts. Include examples.

(2×5=10 weightage)

