


RAN-2611001006044001

T.Y.B.Sc. (Comp. Sci.) (Semester-VI) Examination March - 2026
Minor-CS-601-Data Visualizations (TH) (New)

[Total Marks: 50

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book.	Seat No.: <table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table> Student's Signature						

Q-1. A) Answer the following MCQ.

05

- 1) What is the core component of Tableau's architecture responsible for data processing?

A) Tableau Desktop	B) Data Engine
C) Tableau Server	D) Workbook
- 2) Explain the difference between a live connection and an extract in Tableau data sources.

A) Live is for visuals; extract is for data.	B) Live queries data in real-time; extract creates a snapshot for faster performance.
C) Extract is real-time; live is static.	D) Both are identical.
- 3) Which area in the Tableau workspace is used to build visualizations?

A) Data pane	B) View canvas
C) Shelves	D) Marks card
- 4) Context filters are used to

A) Improve performance by filtering first	B) Delete workbook
C) Create dashboard	D) Add title
- 5) Drilling down means

A) Moving from summary to detailed data	B) Deleting records
C) Exporting report	D) Changing color

- Q-1. B) Answer question in short. (Any Four) 08**
- 1) Define Data Visualization.
 - 2) What is a Tree Map?
 - 3) What is a Calculated Field? Where it is used?
 - 4) What is User Filter?
 - 5) Write any two String functions in Tableau.
- Q-2. A) Explain the importance of Data Visualization in Business Analytics. How does it support decision-making? 08 08**
- OR**
- Q-2. A) Explain Tableau Workspace. Describe Shelves, Marks Card, Data Pane and Toolbar. 08**
- Q-2. B) Explain how Parameters are used in Calculated Fields for What-If analysis. 05**
- Q-3. Answer the following Questions. (Any Two) 12**
- A) Explain Dimensions and Measures in Tableau. Differentiate between them with examples.
 - B) Explain different types of charts in Tableau such as Bar Chart, Line Chart, Tree Map, and Scatter Plot.
 - C) Explain Parameters in Tableau and describe how they are used in What-If Analysis with examples.
- Q-4. Answer the following Questions. (Any Two) 12**
- A) Explain Join and Data Blending in Tableau. Discuss the difference between them.
 - B) Explain Logical Functions in Tableau. Describe IF, CASE, and AND/OR conditions with examples.
 - C) Draw diagram for tableau architecture and explain its components.
-