

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Artificial Intelligence & Machine Learning/Computer Science & Engineering) (Sem.-5)

DATA VISUALIZATION USING TABLEAU

Subject Code :BTAIML 505-20

M.Code :93181

Date of Examination : 02-12-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) What are the applications of data visualization? List any two.
- b) Differentiate between discrete and continuous data.
- c) Define the calculated field. How is it different from table calculation?
- d) What is the Level of Detail expression?
- e) What is a Scatter plot?
- f) What is a Sparkline?
- g) Define forecasting in Tableau.
- h) When is a tree map preferred?
- i) What is data storytelling?
- j) Define Tableau alerts and their use.

SECTION - B

2. What are the steps for adding forecasting?
3. Explain the steps involved in connecting data to Tableau and shaping it for visualization.
4. What is the Insight Framework for data visualization? How does it support storytelling?
5. Discuss the use of Marks Card in Tableau with examples of different encoding techniques.
6. How can filters and parameter-based analysis be applied in Tableau?

SECTION - C

7. Discuss shaping data for use with Tableau in detail, highlighting its importance and methodology.
8. Explain forecasting techniques in Tableau with an emphasis on model types and trend lines.
9. Tableau offers several types of maps. Discuss five different types of map visualizations supported by Tableau, their use cases, and how to implement them?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.