

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI EXAMINATION – SUMMER 2025****Subject Code:3165202****Date: 22-05-2025****Subject Name: Data Visualization****Time: 10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed

		MARKS
Q.1	(a) Define following Term: Visualization, Filtering, Axes	03
	(b) Explain Power BI in detail.	04
	(c) What are the key Factors of Data Visualization?	07
Q.2	(a) Define: 1. Box Plots 2. Scatter Plots	03
	(b) List out various applications of Data Visualization.	04
	(c) Explain Basic Plotting with Matplotlib.	07
	OR	
	(c) Explain Histograms in detail.	07
Q.3	(a) What is Acquiring and Visualizing Data?	03
	(b) Define Data Interpreter.	04
	(c) Explain bar chart, pie chart, line chart, bubble chart with example.	07
	OR	
Q.3	(a) What are Waffle Charts?	03
	(b) Define: 1. Candlestick Charts 2. Surface Charts	04
	(c) List out installation steps of Tableau.	07
Q.4	(a) Differentiate between Linear Scale and Ordinal Scale.	03
	(b) Prepare column chart using the HTML5 canvas.	04
	(c) List out Various menu options of Tableau.	07
	OR	
Q.4	(a) How to use the Google Charts API to render a pie chart for sales data of various electronic devices.	03
	(b) Explain Data source settings in Tableau.	04
	(c) Describe Simultaneous acquisition and visualization.	07
Q.5	(a) Describe Data source settings in Tableau.	03
	(b) What is charting Primitives? List all types of Charts and explain Area Chart.	04
	(c) Explain Various graphs used in Tableau.	07
	OR	
Q.5	(a) Explain Scalable Vector Graphics.	03
	(b) List out Real-world data visualization tasks.	04
	(c) Explain Seaborn functionalities and usage in detail.	07
