

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2024

Subject Code:3160717

Date:28-11-2024

Subject Name:Data Visualization

Time:02:30 PM TO 05:00 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) What is Infographics explain with example	03
	(b) Describe Simultaneous acquisition and visualization.	04
	(c) What is charting Primitives? List all types of Charts and explain bar Chart and line Chart.	07
Q.2	(a) Explain linear gradient and radial gradient in canvas.	03
	(b) Why is HTML5 so important to data visualization?	04
	(c) How to use the HTML5 canvas to render dynamic column charts?	07
OR		
	(c) How to use the Google Charts API to render a column chart for University result data of various subjects.	07
Q.3	(a) How to read XML file? Explain with example.	03
	(b) Explain CSS-style selectors with example.	04
	(c) How to use the Google Charts API to render a Pie chart for Election data of various states.	07
OR		
Q.3	(a) How to read JSON file? Explain with example.	03
	(b) How the HTML5 canvas differs from SVG graphics	04
	(c) Explain Data points and XY chart with example	07
Q.4	(a) Explain transaction with respect to data visualization	03
	(b) Explain select and append command in D3.js with example	04
	(c) Write a code to demonstrate play button also explain it.	07
OR		
Q.4	(a) Prepare column chart using the HTML5 canvas.	03
	(b) Explain Select all and exit command in D3.js with example.	04
	(c) Describe Loading and Filtering External Data in data visualization	07
Q.5	(a) How do you update charts?	03
	(b) How to add Play button to the page? Explain with example	04
	(c) What are the key Factors of Data Visualization?	07
OR		
Q.5	(a) Explain syntax of polygon and poly points in canvas with example.	03
	(b) How you achieve eloquence? Explain it	04
	(c) What is information Dashboard? Explain various design issues of it	07
