

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI EXAMINATION – WINTER 2025

Subject Code:3160717

Date:19-11-2025

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) Explain any three key factors data visualization.	03
(b) Describe data visualization and it's any three applications.	04
(c) Explain HTML5 canvas with example. Explain code to draw linear & circular gradient, using HTML 5 canvas.	07
Q.2 (a) Describe how to read data from text file and display in table using jquery.	03
(b) Differentiate native vs javascript validation.	04
(c) Explain XSLT with example.	07
OR	
(c) Explain with example JQuery validation engine using four different validation rules.	07
Q.3 (a) Describe dynamic highlighting with example.	03
(b) Explain CSS-style selectors with example.	04
(c) Explain XML and how to read data from XML file with example and draw bar chart from it.	07
OR	
Q.3 (a) Differentiate server side vs client side validation	03
(b) Explain HTML 5 inputs with example.	04
(c) Explain CSV and how to read data from CSV file with example and draw pie chart from it.	07
Q.4 (a) Explain interruption of the play action?	03
(b) Describe interactive button with example.	04
(c) Explain transition(), data() and append() functions with example.	07
OR	
Q.4 (a) Explain steps to create and upload data in D3 js.	03
(b) Describe animation with example.	04
(c) Explain join(), enter() and attr() functions with example.	07
Q.5 (a) Explain click(), each(), and text() jquery functions.	03
(b) List and explain advantage of graphics library of graph to create a dashboard.	04
(c) Explain dashboard and it's real world example.	07
OR	
Q.5 (a) Explain ajax with example.	03
(b) Explain the use of dashboard with example.	04
(c) Describe dashboard design issues and how to solve it .	07
