Seat No.:	Enrolment No.
Jean 110	Linding it it.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI(NEW) EXAMINATION - WINTER 2022** 

Subject Code:3160717 Date:1			22
Subject Name:Data Visualization  Fime:02:30 PM TO 05:00 PM Total Ma  Instructions:		:ks:70	
	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.  Simple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b) (c)	What is Acquiring and Visualizing Data? Describe Simultaneous acquisition and visualization. What is charting Primitives? List all types of Charts and explain Pie Chart and Area Chart.	03 04 07
Q.2	<ul><li>(a)</li><li>(b)</li><li>(c)</li><li>(c)</li></ul>	How to use the HTML5 canvas to render dynamic column charts?  OR  How to use the Google Charts API to render a pie chart for sales data of	03 04 07
Q.3	(a) (b) (c)	List down installation setup steps of D3.	03 04 07
Q.3	(a) (b) (c)	Explain CSS-style selectors with example.	
Q.4	(a) (b) (c)	Explain Data joins, interactive buttons with examples.	
Q.4	(a) (b) (c)	Prepare column chart using the HTML5 canvas.  Explain how you can allow the user to interrupt the play?  Explain steps to create and upload data in D3.	03 04 07
Q.5	(a) (b)	Explain Scalable Vector Graphics.  Develop Following Program Using HTML5 and Google Chats API and Map API Using Google Charts API Basics draw charts like a Line chart	03 04
	(c)	Develop Following Program Using HTML5 and JavaScript Read JSON Data and draw Data Table.  OR	07
Q.5	(a)	Enlist Dashboard design issues in Data Visualization.	03
	<b>(b)</b>	Develop Following Program Using HTML5 and JavaScript Read the data from XML file and draw Simple Chart	04
	(c)	Develop Following Program Using HTML5 and D3.js and Canvas.js Showing the Data as a column chart for four age group.	07

\*\*\*\*\*