Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - SUMMER 2022

Subj	ect C	ode:3160717 Da	ate:06/06/2022
Subj	ect N	ame:Data Visualization	
Γime:10:30 AM TO 01:00 PM Total Mar		otal Marks: 70	
Instru	ctions		
		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)	Define following Term: Visualization, Filtering, Axes	03
V	(b)	Differentiate following:	04
	()	1) Canvas and SVG	
		2) Linear Scale and Ordinal Scale	
	(c)	How to work with Google API? Give an example of pie cl	hart in 07
		Google API	
Q.2	(a)	What is XSLT? Explain with example.	03
	(b)	Write a code to read CSV file and display its content on the br	rowser 04
	(c)	Define Document Object Model (DOM). Write a code to F	Read a 07
		XML file and display its content on the browser.	
		OR	2=
	(c)	Define DTD, Explain XML syntax with example.	07
Q.3	(a)	Define Data binding. What is the use of text().	03
	(b)	What is the Transaction? How to apply Transaction?	04
	(c)	Explain bar chart, pie chart, line chart, bubble chart with exam OR	ple. 07
Q.3	(a)	Differentiate between .xml file and .csv file	03
	(b)	How to read JSON file? Explain with example.	04
	(c)	Explain Data points and XY chart with example	07
Q.4	(a)	How to use selection in D3.js?	03
	(b)	Explain select and append command in D3.js with example	04
	(c)	Explain data-joins in D3.js with example. OR	07
Q.4	(a)	Describe the changing method of D3.js with example.	03
•	(b)	Explain Select all and exit command in D3.js with example.	04
	(c)	Explain Various Functions in D3.js	07
Q.5	(a)	Explain syntax of polygon and poly points in canvas with exar	mple. 03
	(b)	How to make interactive button? Explain with example.	04
	(c)	Explain Dashboard with example.	07
0.5	(2)	OR Differentiate between Linear Scale and Ordinal Scale.	03
Q.5	(a) (b)	How to add Play button to the page? Explain with example.	03 04
	(c)	What are the key Factors of Data Visualization?	07
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