	•	GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–VI (NEW) EXAMINATION – SUMMER 2023 Code:3160717 Date:10-07-20 Name:Data Visualization	23
Time:10:30 AM TO 01:00 PM Total Marks		70	
Ins	structio	ns:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3. 4.	Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
	т.	Simple and non-programmable scientific calculators are anowed.	MARKS
01	(a)	Define: (1) Data Daint (2) Scale (2) Infographics	03
Q.1	(a) (b)	Define: (1) Data Point (2) Scale (3) Infographics Discuss the real applications of data visualization in short.	03 04
	(c)	Write a code to display both Pie chart and Column chart using Google API in	07
		single browser window.	
Q.2	(a)	Differentiate CSV Vs JSON files.	03
	(b)	Write down a code for reading and displaying csv file using	04
		Jquery.	
	(c)	Explain linear gradient and radial gradient of HTML5 Canvas with example.	07
		OR	~-
	(c)	Write down a code to display a typical Exam Schedule Time Table with CSS.	07
Q.3	(a)	What is D3.js? Explain in short.	03
Q.3	(a) (b)	Explain Candlestick Charts in short.	03 04
	(D) (C)	Define Data Binding. Also explain different uses of append(),	04 07
	(0)	text(), selectAll() (using class,id).	07
		OR	
Q.3	(a)	Differentiate text file with XML file	03
C	(b)	Write a suitable code to demonstrate dynamic highlighting.	04
	(c)	Write down a code to animate a Rectangle using Canvas API.	07
Q.4	(a)	What is Data joins? Explain it in short.	03
	(b)	What is interactive button. Explain it in short.	04
	(c)	Write a code that uses the join() method to merge the two datasets and	07
		create a new dataset that includes both the datasets.	
0.4	(\cdot)	OR	02
Q.4	(a) (b)	What is sequence w.r.t data visualization?	03
	(b)	Write down a code snippet that demonstrate transaction w.r.t data visualization.	04
	(c)	Write a code snippet that adds a Play button to the page.	07
	(t)	while a code shipper that adds a r lay button to the page.	07
Q.5	(a)	What is eloquence? Explain in short.	03
	(b)	How do you update charts ? Explain in short.	04
	(c)	What is information Dashboard? Create a sketch/wireframe of any	07
	. ,	hypothetical Engineering College.	
		OR	
Q.5	(a)	What is Bullet graph?	03
	(b)	Explain Critical Design Practices w.r.t data visualization?	04
	(c)	What are different considerations associated with visual presentation of	07
		information dashboard. Explain all in detail.	
