GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER–V • EXAMINATION – WINTER - 2020

Subject Code:3650015   **Date:06/01/2020**
Subject Name: Data Visualization
Time:10:30 AM to 12:30 PM   **Total Marks: 56**
Instructions:
1. **Attempt any FOUR questions out of EIGHT questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	(a)	Explain types of Charts? Explain any two of them in Details.	07
	(b)	What is HTML5? Explain the new key feature of HTML5.	07
Q.2	(a)	Explain the difference SVG and CANVAS with example.	07
	(b)	What are the Key Factors of data visualization?	07
Q.3	(a)	What is full form of CSV? Write a code to read csv file and display its contents on the browser.	07
	(b)	How to work with GOOGLE API. Give an example of pie chart in Google api.	07
Q.4	(a)	How to read data from JSON file. Explain with example.	07
	(b)	Explain adding animations in HTML5 with example.	07
Q.5	(a)	What is D3.js axis component? Why axis is added to the graph? What information does the scale of axis tell?	07
	(b)	Explain bar chart, pie chart, line chart, bubble chart with example.	07
Q.6	(a)	Explain data points and XY chart with example.	07
	(b)	What is D3.js? Explain .selection, .selectAll and .data() in brief.	07
Q.7	(a)	Explain Data-joins and also explain how to implement anonymous functions to access bound data.	07
	(b)	How to read data from standard text file. Explain with Example.	07
Q.8	(a)	Explain the steps how to create a server to upload your data. Describe D3's function for loading data.	07
	(b)	How to add Play button to the page. Explain with example.	07

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