

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA – SEMESTER – 5 • EXAMINATION – SUMMER 2018****Subject Code: 3650015****Date: 09-May-2018****Subject Name: Data Visualization (DV)****Time: 10.30 am to 1.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the difference SVG and CANVAS with example. **07**
(b) Explain animation in D3.js with example. **07**
- Q.2** (a) Explain linear gradient and radial gradient in canvas with example. **07**
(b) Explain JSON Syntax with example. **07**
- OR**
- (b) Define DTD, Explain XML syntax with example **07**
- Q.3** (a) Explain various function in D3.js. **07**
(b) Explain filters in D3.js. **07**
- OR**
- Q.3** (a) Define Document Object Model (DOM). Write a code to read a XML file and display its contents on the browser. **07**
(b) Explain Dashboard with example. **07**
- Q.4** (a) Explain data points and XY chart with example. **07**
(b) Explain bar chart, pie chart, line chart, bubble chart with example. **07**
- OR**
- Q.4** (a) Explain the commands select, selectAll, append, exit in D3.js with example. **07**
(b) What is full form of CSV. Write a code to read csv file and display its contents on the browser. **07**
- Q.5** (a) Explain the syntax of ellipse, polygon, poly-points in Canvas with example. **07**
(b) Explain XML stylesheet (XSLT). **07**
- OR**
- Q.5** (a) Define the terms legend, interval, axes, scales in a chart. **07**
(b) Explain data-joins in D3.js with example. **07**
