



**Chhattisgarh Swami Vivekanand Technical University, University**  
**Teaching Department**

**B. Tech (Honours) (Data Science/ Artificial Intelligence)**

**Class Test - I, May, 2023**

**Subject Name-Data Visualization**

**Subject Code-B127476(022)**

<i>Time Allowed: 2 hours</i>	<i>Maximum Marks: 40</i>
	<i>Minimum Pass Marks: 14</i>

Part – 1 (a is compulsory and b and c are optional, attempt any one)

- Explain the Data visualization aesthetics [4 marks]
- Write detailed notes on coordinate systems along with suitable examples. [16marks]
- Please describe what are distributions and different types of distributions with examples. [16 marks]

Part – 2 (a is compulsory and b, c and d are optional attempt any two)

- Describe the different characteristics of use of colours in data visualization [4 marks]
- What is quantile-quantile plots explain the steps with suitable examples. [8 marks]
- Please explain the method for visualizing different distributions in the same plot. Also, explain the method for representing data that have differences in the order of magnitude. [8 marks]
- Write short note on any two from following sections
  - Stacked bar plots
  - Histograms
  - Density plots
  - Heatmaps