

**BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)**  
**B.Tech.Sem - VIII COMPUTER SCIENCE & ENGINEERING : SUMMER : 2024**  
**SUBJECT: DATA VISUALIZATION & REPORTING**

Day : Wednesday  
Date : 22/05/2024

S-24352-2024

Time : 02:30 PM-05:30 PM  
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

- 
- Q.1 Explain the process to transform raw data into visualization (10)  
OR
- Q.1 Write short notes on following. (10)  
a) Structure within and between Records  
b) Data Preprocessing
- Q.2 Explain stages on Data Visualization stages. (10)  
OR
- Q.2 What is Semiology of Graphical Symbols? Explain brief about the Eight Visual Variables. (10)
- Q.3 Explain Spatial data and Geo-spatial data visualization techniques. (10)  
OR
- Q.3 Explain how Visualization of Point Data and Line Data will be done. Also write down Issues faced in Geo spatial Data Visualization. (10)
- Q.4 Define Tableau and explain its primary functions in data visualization. (10)  
OR
- Q.4 Identify the key features of Zohosheet that distinguish it from other spreadsheet software for data analysis. (10)
- Q.5 What are animating transformation, and how are they used in text and document visualization to enhance user understanding? (10)  
OR
- Q.5 Write a short note on : Interaction Techniques (10)
- Q.6 Define animation design for simulation and provide examples of its application in various industries or fields. (10)  
OR
- Q.6 Discuss the significance of innovation interaction within virtual reality environments, explain with examples how it enhances user experience. (10)

\* \* \* \* \*