

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - VIII Computer Science & Engineering : SUMMER : 2025
SUBJECT: DATA VISUALIZATION & REPORTING

Day : Tuesday
Date : 27/05/2025

S-25612-2025

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.

Q.1 Discuss and classify the four scales of measurement in data (nominal, ordinal, interval, ratio) with help of suitable examples. (10)

OR

Q.1 Write a short note on : (10)

- a) Scatter plots
- b) Outliers
- c) Cluster in data

Q.2 Analyze the role of taxonomies in visualization and how they help in classifying different types of data representation. (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 List and explain most common problems in data visualization. (10)

Q.4 Create a data visualization plan using Tableau that includes calculated fields, parameters, maps and dashboards for a retail dataset. (10)

OR

Q.4 Compare and contrast the data visualization capabilities of Tableau and Zohosheet in terms of user interface, features and analytics. (10)

Q.5 Discuss the importance of interaction control in text document visualization, and provide examples of how it is implemented. (10)

OR

Q.5 Define the vector Space Model in the context of text representation and explain its significance in document visualization. (10)

Q.6 Analyze the role of VR in enhancing user experience in interactive medical applications. (10)

OR

Q.6 Compare different VR tools used for creating educational and assistive simulations. (10)

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