



R20 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 3P4HC

B.Tech IV Semester Regular/Supplementary Examinations, September 2023

DATA VISUALIZATION
(CSE (DATA SCIENCE))

Maximum Marks: 70

Date:23.09.2023 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is Visualization?
- 2 Define Data Processing
- 3 Write about The Visual process?
- 4 What is Dynamic Data?
- 5 Define Multivariate Data.
- 6 List out Point based techniques.
- 7 Write about Interaction Operators.
- 8 Define Object space.
- 9 Compare User tasks & User characteristics.
- 10 Discuss Text analysis & Visualization.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Explain in detail Pseudo code conventions. 10M
OR
- 12 Illustrate History & Relationship visualization with other fields. 10M
- 13 A. Discuss Eight Visual Variables. 5M
B. List various Taxonomies. 5M
OR
- 14 Compare & Contrast Visualizing Spatial Data & Area Data. 10M
- 15 A. Explain in detail Region based Techniques. 5M
B. Discuss Combination Of techniques. 5M
OR
- 16 Write about Displaying Hierarchical structures. 10M
- 17 A. List Levels Of Text Representation. 5M
B. Explain in brief Animating transformations. 5M

OR

- 18 Explain in detail The vector space model. 10M
- 19 A. Illustrate Steps in Designing Visualization. 5M
B. Explain Problems in Designing Effective Visualization. 5M
OR
- 20 Explain in brief Data Characteristics Visualization. 10M