



R20 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 3P4HC

B.Tech IV Semester Supplementary Examinations, February 2024

**DATA VISUALIZATION
(CSE (DATA SCIENCE))**

Maximum Marks: 70

Date: 26.02.2024 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)	CO	Bloom Tx
1	List Types of Data.		CO1	L1
2	Define The Scatter Plot.		CO1	L1
3	Define One Dimensional data.		CO2	L1
4	Explain about Visualizing spatial data.		CO2	L2
5	List various Visualization Techniques.		CO3	L1
6	Define Line based techniques.		CO3	L1
7	Explain about Interaction Operands.		CO4	L2
8	What is Interaction control?		CO4	L1
9	Name some Data Characteristics.		CO5	L1
10	Illustrate Steps in Designing Visualizations.		CO5	L2

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	Explain in detail about Visualization Process. 10M		CO1	L5
	OR			
12	List Data Foundations in detail. 10M		CO1	L4
13	Compare & Contrast Two Dimensional Data & Three Dimensional Data. 10M		CO2	L4
	OR			
14	Classify Visualization of Point data & Line data. 10M		CO2	L4
15	Explain about Visualization Techniques for Trees, Graphs & Networks. 10M		CO3	L2
	OR			
16	Demonstrate displaying Arbitrary graphs/Networks. 10M		CO3	L2
17	Compare Document Visualization & Document Collection Visualization. 10M		CO4	L5
	OR			
18	Explain in detail about Object space, data space & attribute space. 10M		CO4	L5

19	A. Explain in brief Structures for evaluating Visualizations. 5M B. Write in detail Modern Integrated Visualization Systems. 5M	CO5	L5 L5
	OR		
20	A. Write about Visualization Systems. 5M B. Illustrate Text analysis & Visualization. 5M	CO5	L2 L2