



R20 Regulation *Subject code: 3P4HC*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, July 2024

DATA VISUALIZATION
(CSE(DS))

Maximum Marks: 70

Date:27.07.2024 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	What is Data and explain its sources?		1	L1
2	What is unstructured Data?		1	L1
3	What are iso-surfaces?		2	L1
4	Define Spatial Data.		2	L1
5	Define Dimension embedding		3	L1
6	Define Glyphs.		3	L1
7	What is lexical level of text representation?		4	L1
8	Write the significance of co-occurrences in textual data representation?		4	L1
9	Define Rank.		5	L1
10	What is text analysis.		5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	A. Define Data visualization. Explain the role of Data Visualization in Day to day life. (5M) B. Explain Data processing in detail with a neat illustration [5M]		1	L2
OR				
12	A. What is Data and its various? Explain different types of Data with differences. [6M] B. What is a scatterplot explain its application with an example. [4M]		1	L2
13	A. Define Semiology and isosurfaces. [4M] B. Explain area and surface phenomenon in detail. [6M]		2	L2
OR				
14	A. What are the different types of maps? [5M] B. Explaining multiple combining techniques for dynamic data [5M]		2	L2
15	A. Explain the process of visualizing area Data. [5M] B. Explain the process of dimension sub setting in detail with neat figures and example. [5M]		3	L2

	OR		
16	A. Explain in detail about multivariate glyphs. [4M] B. Explain different ordering strategies. [6M]	3	L2
17	A. Explain word-by-word way of text processing in Data visualization [5M] B. Explain the process of processing textual data in word by doc method [5M]	4	L2
	OR		
18	A. Explain different classes of interaction techniques [5M] B. Explain the concept of unified framework [5M]	4	L2
19	A. Explain any one modern integrated visualization system with its advantages and disadvantages. [5M] B. Illustrate any two visualization systems based on Analysis type [5M]	5	L2
	OR		
20	A. Explain structures for evaluating visualizations. [5M] B. Explain in detail any two benchmarking procedures. [5M]	5	L2