



B.Tech IV Semester Supplementary Examinations, December 2024

DATA VISUALIZATION
(CSE(DS))

Maximum Marks: 70

Date:12.12.2024

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 it sources?	1	L1
2	What are the 7 steps of Data Visualization?	1	L1
3	Define Semiology.	2	L1
4	Write the importance of Taxonomy in Data Visualization?	2	L1
5	Define Dimension embedding.	3	L1
6	Define Glyphs.	3	L1
7	What is lexical level of text representation?	4	L1
8	Define token in textual data visualization.	4	L1
9	What is degree of accuracy?	5	L1
10	Define Rank.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
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 keys steps in building useful dashboards. [4M] B. Explain scatterplots and scatter matrices in detail with example [6M]	3	L2

	OR			
16	A. Explain in detail about multivariate glyphs. [4M] B. Explain different ordering strategies. [6M]		3	L2
17	A. Explain the interaction operand and spaces. [4M] B. Detail single and multiple document visualization techniques in brief. [6M]		4	L2
	OR			
18	Explain vector space model with its applications in various sectors. [10M]		4	L2
19	A. List out all the user tasks to perform assessment of visualization technique. [5M] B. Explain at least five Data characteristics. [5M]		5	L2
	OR			
20	A. Explain structures for evaluating visualizations. [5M] B. Explain in detail any two benchmarking procedures. [5M]		5	L2