School of Computing Science and Engineering
Bachelor of Science in Computer Science
Mid Term Examination - Mar 2024

Duration : 90 Minutes
Max Marks : 50

Sem VI - E1UP603B - Data Analysis and Handling

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1) Describe the process of merging two DataFrames in Pandas. — K2 (2)

2) What is the difference between a pie chart and a stacked bar chart. — K1 (3)

3) Explain the difference between data aggregation and data summarization. — K2 (4)

4) How can you handle missing data in a dataset? Explain. — K2 (6)

5) Illustrate the difference between loc and iloc in pandas with example. — K3 (6)

6) Illustrate how to sort a DataFrame in pandas based on multiple columns. — K3 (9)

7) Analyze the effectiveness of different data visualization evaluation methods (e.g., user testing, expert reviews, quantitative metrics) in assessing the quality and usability of visualizations. — K4 (8)

8) Analyze the effectiveness of different storytelling techniques (e.g., narrative structure, data-driven anecdotes) in engaging non-technical stakeholders and conveying complex analytical insights. Give example — K4 (12)

OR

Analyze the impact of cultural and contextual factors on the interpretation and perception of data visualizations across diverse audiences. — K4 (12)