

Class Test (3) Examination: Summer-2026

Course Code: CIS 122 (Batch: 24)

Course Title: Data Structure

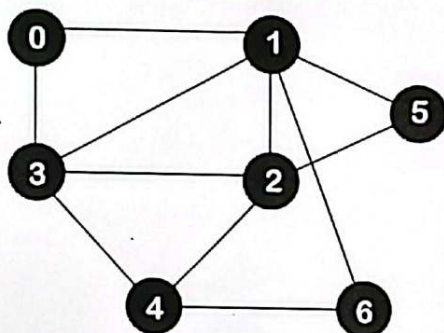
Date: 09/08/2026

Time: 30 Minutes

Total Marks: 15

1. If Depth-First Search (DFS) starts from vertex 4 in the following graph, what will be the sequence of vertices visited? Assume that when multiple adjacent vertices are available, they are selected in ascending numerical order.

[6]



2. Find the minimum travel distance from **Sagordari** to **Kuthibari** in the following diagram. Also, identify the corresponding shortest path.

[9]

