



SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. If a graph has 5 vertices and 7 edges, what is the maximum number of edges in a complete graph with 5 vertices?

- A. 10
- B. 12
- C. 15
- D. 20

Solution: In a complete graph with V vertices, the maximum number of edges is given by $V(V-1)/2$. For 5 vertices, it is $5*(5-1)/2 = 10$.*

Q2. Which algorithm can be used as an alternative to Dijkstra's algorithm for graphs with negative weights?

- A. Prim's algorithm
- B. Kruskal's algorithm
- C. Bellman-Ford algorithm
- D. A* algorithm

Solution: The Bellman-Ford algorithm can be used to find the shortest paths in graphs with negative weight edges.



