Module 17 Quiz:
Graph Analytics

1. Graph mining research has thus far only identified three "power laws": one for the graph's degree distribution, one for the eigenvalues of the graph's adjacency matrix, and one on temporal graphs' densification over time.

A. True

B. False

Answer: B

2. In a 7-node undirected graph connected in star topology, the central node has the highest (check all that apply):

A. betweenness centrality

B. closeness centrality

C. degree centrality

D. network diameter

Answer: ABC

3. Power Iteration method is primarily used to compute PageRank scores of small graphs with hundreds of nodes and edges.

A. True

B. False

Answer: B

4. Research has shown that the effective diameters of real-world graphs (e.g., patent citation network) shrink over time.

A. True

B. False

Answer: A