Multiple Choice (1 point each)

Question 1

A graph is a set of nodes and edges.

- [ ] True
- [ ] False

Question 2

The time complexity of BFS is:

$$O(|V| + |E|)$$

- [ ] True
- [ ] False

Question 3

The time complexity of DFS is:

$$O(|V||E|)$$

- [ ] True
- [ ] False

Question 4

Bellman-Ford is applicable to graphs with negative edge weights.

- [ ] True
- [ ] False

Question 5

Dijkstra's algorithm is applicable to graphs with negative edge weights.

- [ ] True
- [ ] False

Question 6

Kruskal's MST algorithm does not involve sorting.

- [ ] True
- [ ] False

Question 7

One application of Minimum Spanning Tree (MST) is infrastructure deployment.

- [ ] True
- [ ] False

Question 8

Shortest path algorithms are useful in routing packets in computer networks.

- [ ] True
- [ ] False

Question 9

The following graph is a spanning tree.

- [ ] True
- [x] False

Question 10

Median can be found in linear time.

- [ ] True
- [ ] False