**Question 1**: What is a spanning tree in a graph?

**Question 2**: What is the difference between a minimum spanning tree and a maximum spanning tree?

**Question 3**: What is Kruskal's algorithm?

**Answer Question 1**: A spanning tree in a graph is a subset of edges that form a tree which includes all vertices of the graph.

**Answer Question 2**: A minimum spanning tree is a spanning tree with the smallest possible sum of edge weights, while a maximum spanning tree is a spanning tree with the largest possible sum of edge weights.

**Answer Question 3**: Kruskal's algorithm is a greedy algorithm that finds a minimum spanning tree for a connected weighted graph. It works by sorting the edges by weight and gradually adding the smallest-weight edges to the spanning tree, as long as they do not create a cycle.