Assignment 6
Due on: 2020-03-11, 23:59 UTC

1. Which graph is:
   - Undirected and acyclic
   - Directed and acyclic
   - Undirected and cyclic
   - Directed and cyclic
   - Neither

2. Consider a graph G with 5 vertices and 6 edges. Which of the following statements is true?
   - The graph is connected
   - The graph has a cycle
   - The graph is acyclic
   - The graph has no cycles
   - The graph is not connected

3. Consider a graph G with 5 vertices and 6 edges. Which of the following statements is true?
   - The graph is connected
   - The graph has a cycle
   - The graph is acyclic
   - The graph has no cycles
   - The graph is not connected

4. Which of the following graphs is an example of a Directed Acyclic Graph (DAG)?
   - A
   - B
   - C
   - D
   - E

5. Consider a graph with 10 vertices and 15 edges. Which of the following statements is true?
   - The graph is connected
   - The graph has a cycle
   - The graph is acyclic
   - The graph has no cycles
   - The graph is not connected

6. Consider a graph with 10 vertices and 15 edges. Which of the following statements is true?
   - The graph is connected
   - The graph has a cycle
   - The graph is acyclic
   - The graph has no cycles
   - The graph is not connected

7. Which of the following statements is true about a Directed Graph?
   - Every edge is directed
   - There are no cycles
   - There are no edges
   - Both A and B
   - Both A and C

8. Which of the following statements is true about a Undirected Graph?
   - Every edge is directed
   - There are no cycles
   - There are no edges
   - Both A and B
   - Both A and C

9. Consider a graph with 10 vertices and 15 edges. Which of the following statements is true?
   - The graph is connected
   - The graph has a cycle
   - The graph is acyclic
   - The graph has no cycles
   - The graph is not connected

10. Consider a graph with 10 vertices and 15 edges. Which of the following statements is true?
    - The graph is connected
    - The graph has a cycle
    - The graph is acyclic
    - The graph has no cycles
    - The graph is not connected

11. Which of the following statements is true about a Directed Acyclic Graph (DAG)?
    - Every edge is directed
    - There are no cycles
    - There are no edges
    - Both A and B
    - Both A and C