Assignment 6

Due date: 21st October 2019

1. The given text contains a number of statements. Select the true statement(s).
   a. All statements are true.
   b. None of the statements are true.
   c. Some of the statements are true.
   d. Only one statement is true.

2. Which of the following statements about the given graph are true?
   a. It is a complete graph.
   b. It has a cycle.
   c. It is a tree.
   d. It is a bipartite graph.

3. What is the degree of vertex A in the given graph?
   a. 3
   b. 4
   c. 2
   d. 1

4. What is the minimum number of colors needed to color the given graph so that no two adjacent vertices have the same color?
   a. 3
   b. 4
   c. 2
   d. 1

5. What is the chromatic number of the given graph?
   a. 3
   b. 4
   c. 2
   d. 1

6. What is the maximum number of edges in a graph with 5 vertices?
   a. 5
   b. 6
   c. 10
   d. 15

7. What is the minimum number of edges needed to make the given graph connected?
   a. 0
   b. 1
   c. 2
   d. 3