Assignment 3

The case study for submitting this assignment has changed. As per our faculty's directive, you do not submit this assignment.

Due on 2020-02-18, 23:59 IST.

1. Provide the following statements:
   - Only statement 1 is true.
   - Only statement 2 is true.
   - Both statements are true.

2. A distributed publish-subscribe system. The system manages thousands of topics that clients can publish messages to and receive messages from. The topics are distributed among a set of servers to provide scalability.
   - The service is reliable.
   - Topics are consumed and discarded.
   - Consumers can subscribe to topics.
   - Accounting messages are handled.
   - No, the statement is incorrect.

3. There is no leader election algorithm for anonymous rings, even if an algorithm knows the ring size (non-uniform) and synchronizes. This statement is:
   - True.
   - False.

4. Consider field B to be intended to be replicated over a set of nodes called
   - Clusters.
   - Resources.
   - Sub-routers.
   - None of the mentioned options.

5. No, the statement is incorrect.

6. The algorithm of a ring election, what will be the message complexity for a 5 elements process?
   - O(n).
   - O(n^2).
   - O(n^3).
   - O(n^4).

7. Consider the following statements:
   - Only statement 1 is true.
   - Only statement 2 is true.
   - Both statements are true.

8. True or False:
   - True.
   - False.

9. Leader Election problem represents a general class of non-symmetric branching problems?
   - True.
   - False.

10. No, the statement is incorrect.