Assignment 2

The due date for submitting the assignment has passed. As per our records you have not submitted this assignment.

1. An IP packet arrives at a router with the first eight bits as 10101010. How many bytes is there in the OPTIONS field?
   - a. 4
   - b. 8
   - c. 12
   - d. None of these
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

2. An IP packet arrives at the final destination with the flag set as 1. What can you say about the packet?
   - a. The packet has not been fragmented.
   - b. The packet has been fragmented.
   - c. The packet has been fragmented, and this is not the last fragment.
   - d. The packet was truncated on its way.
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

3. Which address class does the IP address 227.12.85.123 belong to?
   - a. Class A
   - b. Class B
   - c. Class C
   - d. Class D
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

4. What do the following IP addresses signify: 144.16.265.255?
   - a. It is a broadcast address on the class B network 144.16.0.0
   - b. It is a broadcast address on the class C network 144.16.6.0
   - c. The subnet mask is 255.255.255.0
   - d. None of these
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

5. An IP packet with 1000 bytes of data (plus header) passes through an IP network with MTU = 550 bytes. How many additional bytes will be delivered if a packet at the destination?
   - a. 56
   - b. 150
   - c. 250
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

6. The maximum number of hosts that can be possible in a class C network is ______
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

7. What is the purpose of the sequence number field in the TCP header?
   - a. Used for reliable delivery of messages.
   - b. Used to keep track of the number of connections.
   - c. Used to keep track of number of packets successfully delivered.
   - d. None of these.
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

8. What is the subnet address if the destination IP address is 166.15.54.10 and the subnet mask is 255.255.255.0?
   - a. 144.15.32.0
   - b. 144.15.64.0
   - c. 144.15.80.0
   - d. None of these
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)

9. What is a TCP half-open connection in the context of connection-establishment using 3-way handshake?
   - a. The first transaction in the 3-way handshake does not complete.
   - b. The second transaction in the 3-way handshake does not complete.
   - c. The last transaction in the 3-way handshake does not complete.
   - d. None of these.
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Type Number (0-9)