Assignment 1

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

1. For which of the following the header is provided only partly with partial information about a network?
   a. Wireless model
   b. Black box model
   c. Open box model
   d. None of these
   1. Which of the following is not true about a packet switched network?
   a. Communication link can be shared by more than one connection.
   b. A communication link is dedicated to a connection.
   c. The packet transfer delay between a pair of nodes is more if less constant.
   d. The packet transfer delay between a pair of nodes may vary with time.
   2. Which of the following OSI layers are not true about a packet switched network?
   a. Session layer
   b. Transport layer
   c. Network layer
   d. Data link layer
   3. Which of the following is not true about a TCP/UDP packet?
   a. A 128 byte packet is sent over a 13 kbps bidirectional link which propagation delay is 10 milliseconds. The packet will reach the destination after _______ seconds.
   (Answer 1K = 1000)
   b. A communication link is dedicated to a connection.
   c. The packet transfer delay between a pair of nodes is more if less constant.
   d. The packet transfer delay between a pair of nodes may vary with time.
   4. Which of the following OSI layers are not true about a packet switched network?
   a. Session layer
   b. Transport layer
   c. Network layer
   d. Data link layer
   5. Which of the following are true for the TCP protocol?
   a. It provides connection-oriented, reliable packet transfer service.
   b. It provides connection-less, datagram service.
   c. All packets from the source to a destination follow the same path.
   d. Packets from a source to a destination may follow different paths.
   6. If a 2000 byte data message is sent using PPP, the corresponding Ethernet packet will be of _______ bytes.
   7. Which of the following are true for the TCP protocol?
   a. It provides connection-oriented, reliable packet transfer service.
   b. It provides connection-less, datagram service.
   c. All packets from the source to a destination follow the same path.
   d. Packets from a source to a destination may follow different paths.
   8. If the IP header is 128 bytes long, what will be the value of the "HELLO" field?
   a. 4
   b. 0
   c. 32
   d. 192
   9. The maximum size of data that can be accommodated in an IP datagram is _______ bytes.
   10. Which of the following statements are false?
   a. Datagram is faster than virtual circuit if the number of packets transmitted is small.
   b. Datagram is faster than virtual circuit if the number of packets transmitted is large.
   c. In virtual circuit, a dedicated communication path is established between two end stations.
   d. Datagram does not require connection establishment phase.
   11. Which of the following statements are true?
   a. Datagram is faster than virtual circuit if the number of packets transmitted is small.
   b. Datagram is faster than virtual circuit if the number of packets transmitted is large.
   c. In virtual circuit, a dedicated communication path is established between two end stations.
   d. Datagram does not require connection establishment phase.