# MC questions for Unit 3

Red color indicates the correct answer.

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### **Questions 1-7**

True or False?

- 1. Processes on two different end systems communicate with each other by exchanging messages across the computer network. T
- 2. The client-server architecture achieves perfect security. F
- 3. Socket is a hardware interface through which a process sends messages into, and receives messages from the network. **F**
- 4. No data loss is tolerated in multimedia applications such as conversational audio/video. F
- 5. Developing a new network application for the Internet often requires one to decide whether to choose UDP or TCP. T
- 6. Suppose Host A is sending a large to Host B over a TCP connection. If the sequence number for a segment of this connection is *m*, then the sequence number for the subsequent segment will necessarily be *m*+1. **F**
- 7. Suppose Host A sends one segment with sequence number 38 and 4 bytes of data over a TCP connection to Host B. In this same segment the acknowledgement number is necessarily 42. F

## **Question 8**

TCP is a transport proto	col
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- A. Connectionless, reliable
- B. Connectionless, unreliable
- C. Connection-oriented, reliable
- D. Connection-oriented, unreliable

#### **Question 9**

UDP is a transport protocol

A. Connectionless, reliable

- B. Connectionless, unreliable
- C. Connection-oriented, reliable
- D. Connection-oriented, unreliable

# **Question 10**

Suppose Host A sends a TCP segment to Host B over a TCP connection. The segment consists of **x** bytes of data. The sequence number and acknowledgement number in the header of the segment are **y** and **z**, respectively. Suppose Host B receives the segment correctly and sends an acknowledgement to Host A. What will the acknowledgment number be?

Answer: x + y