ASSESSMENT

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TOPIC: THREE WAY HANDSHAKE

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1. In a three-way handshake that initiates a TCP connection, if the SYN request has sequence number 156955349 and the SYN-ACK reply has sequence number 883790339, what are the sequence and acknowledgement numbers for the ACK response?

    A. Sequence No.156955350, Acknowledgement No. 883790340*
    B. Sequence No.156955349, Acknowledgement No. 883790339
    C. Sequence No.156955347, Acknowledgement No. 883790337
    D. Sequence No.156955351, Acknowledgement No. 883790341

2. A server normally responds with SYN ACK in Three-way Handshake what would happen if it just responds with ACK?

    A. Client wait for SYN until it sends SYN
    B. Client accept ACK and starts data transmission
    C. Client forwards ACK back to server
    D. Client will wait for ACK, after a while it will time-out*

3. What is the Protocol Data Unit (PDU) of the Transmission Control Protocol (TCP)?

    A. Packet
    B. Frame
    C. Segment *
    D. Datagram

4. Connection establishment in TCP is done by which mechanism?

    A. Flow control
    B. Three-way handshake*
    C. Forwarding
    D. Synchronization

5. what is the correct order of packets exchange between client and server in TCP/IP Three-way handshake?

    E. SYN, ACK, and SYN/ACK
    F. ACK, SYN/ACK, and SYN
    G. SYN, SYN/ACK, and ACK *
    H. SYN, ACK/SYN, and ACK

6. What does SYN and ACK packets means on TCP/IP Three-way handshake?

    A. Synchronous and Asynchronous
    B. Sync and Active
    C. Synchronize and Asynchronous
    D. Synchronize and Acknowledgment *

7. Which of the following statement is true about TCP/IP three-way handshake?

    A. The client requests a TCP connection by sending SYN/ACK message to server.
    B. The Three-way handshake is an initial step to establish a TCP connection between the client and the server*
    C. Three-way handshake helps to identify the server IP address.
    D. All of the above.

8.what is the first event in Three-way handshake?

    A. Client sends SYN packet*
    B. Receiver sends SYN + ACK packet
    C. Client sends ACK packet
    D. Receiver sends ACK packet

9.How many packets does it requires to establish a TCP connection with the help of three-way handshake?

    A. 1 Packet
    B. 2 Packets
    C. 3 Packets*
    D. 4 Packets

10. Which of the following statements are true

    A. The client requests a connection by sending ACK message to server.
    B. The Three-way handshake is used to tear down the TCP connection.*
    C. Three-way handshake begins with ACK segment.
    D. The client sends an SYN back to the server, acknowledging the server's request for synchronization.

WHAT TO SUBMIT

Submit the document by answering all the questions.