Check Test6 The Access Layer

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* Indicates required question

Student number & Your name *

Choose ▾

1. What will a Layer 2 switch do when the destination MAC address of a received frame is not in the MAC table?   * 1 point

○ It initiates an ARP request.

○ It broadcasts the frame out of all ports on the switch.

○ It notifies the sending host that the frame cannot be delivered.

○ It forwards the frame out of all ports except for the port at which the frame was received.

2. Which network device has the primary function to send data to a specific destination based on the information found in the MAC address table?   * 1 point

○ hub

○ router

○ switch

○ modem

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3. What addressing information is recorded by a switch to build its MAC * 1 point
address table?

○ the destination Layer 3 address of incoming packets

○ the destination Layer 2 address of outgoing frames

○ the source Layer 3 address of outgoing packets

○ the source Layer 2 address of incoming frames

4. What is the purpose of the FCS field in a frame? *   1 point

○ to obtain the MAC address of the sending node

○ to verify the logical address of the sending node

○ to compute the CRC header for the data field

○ to determine if errors occurred in the transmission and reception

5. What is one function of a Layer 2 switch? *   1 point

○ forwards data based on logical addressing

○ duplicates the electrical signal of each frame to every port

○ learns the port assigned to a host by examining the destination MAC address

○ determines which interface is used to forward a frame based on the destination
  MAC address

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6. Which information does a switch use to keep the MAC address table   * 1 point
information current?

○   the destination MAC address and the incoming port

○   the destination MAC address and the outgoing port

○   the source and destination MAC addresses and the incoming port

○   the source and destination MAC addresses and the outgoing port
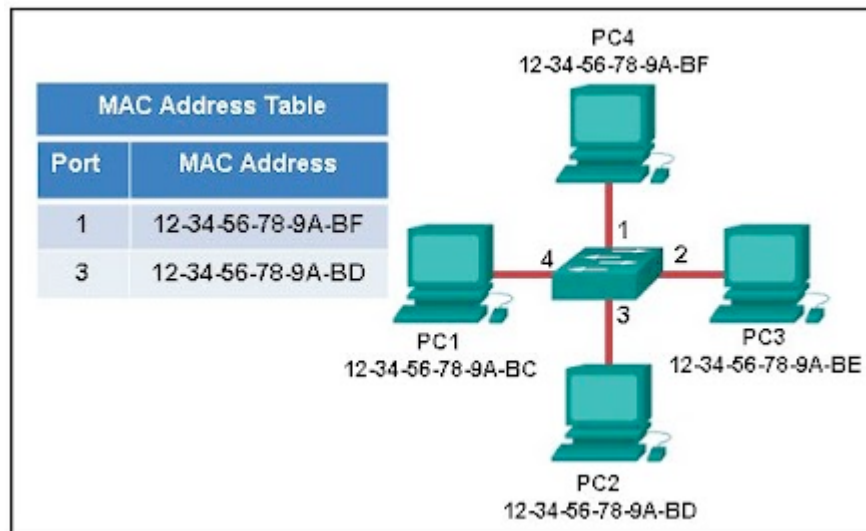
○   the source MAC address and the incoming port

7. What process is used to place one message inside another message for   * 1 point
transfer from the source to the destination?

○   access control

○   decoding

○   encapsulation

○   flow control

○   the source MAC address and the incoming port

Pre-fill responses, then click "Get link"

8. Refer to the exhibit. The exhibit shows a small switched network and the * 1 point
contents of the MAC address table of the switch. PC1 has sent a frame
addressed to PC3. What will the switch do with the frame?

○ The switch will discard the frame.

○ The switch will forward the frame only to port 2.

○ The switch will forward the frame to all ports except port 4.

○ The switch will forward the frame to all ports.

○ The switch will forward the frame only to ports 1 and 3.

9. Which three fields are found in an 802.3 Ethernet frame? (Choose three.)   1 point

☐ source physical address

☐ source logical address

☐ media type identifier

☐ frame check sequence

☐ destination physical address

☐ destination logical address

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10. What will a host on an Ethernet network do if it receives a frame with a   * 1 point
unicast destination MAC address that does not match its own MAC
address?

○ It will discard the frame.

○ It will forward the frame to the next host.

○ It will remove the frame from the media.

○ It will strip off the data-link frame to check the destination IP address.

11. Which statement is correct about Ethernet switch frame forwarding   * 1 point
decisions?

○ Frame forwarding decisions are based on MAC address and port mappings in the
MAC Address table.

○ Frames addressed to unknown MAC addresses are dropped.

○ Switches build up their MAC Address tables based on the destination MAC address
of incoming frames.

○ Unicast frames are always forwarded regardless of the destination MAC address.

Your understanding of today's class *   1 point

          1   2   3   4   5

I didn't understand the class   ○ ○ ○ ○ ○   I understand the class very
          at all   well

What you did not understand in today's class? (Option)   1 point

Your answer

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