Check Test6 The Access Layer

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Student number & Your name * Dropdown

Teacher

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

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

- [ ] the destination Layer 3 address of incoming packets
- [ ] the destination Layer 2 address of outgoing frames
- [ ] the source Layer 3 address of outgoing packets
- [x] 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
- [x] 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
- [x] determines which interface is used to forward a frame based on the destination MAC address

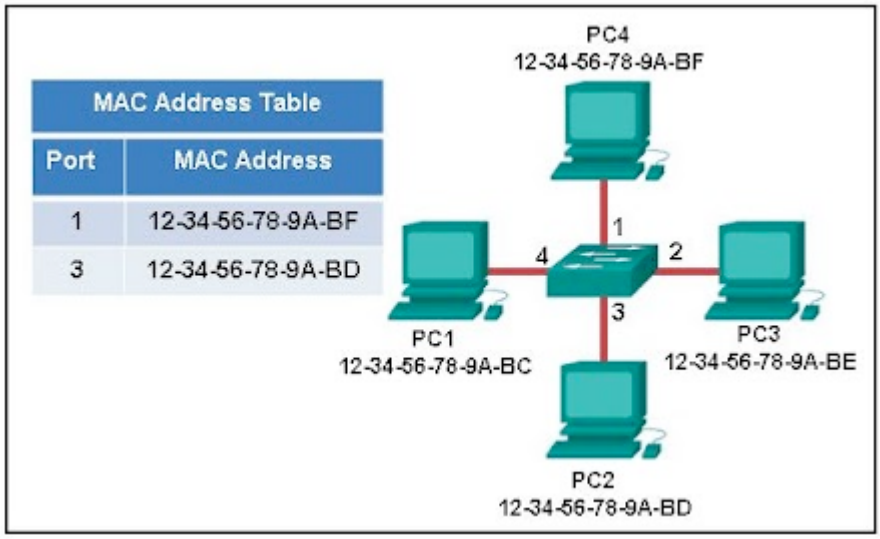
6. Which information does a switch use to keep the MAC address table information current? * 1 point

- ( ) 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 transfer from the source to the destination? * 1 point

- ( ) access control
- ( ) decoding
- (•) encapsulation
- ( ) flow control
- ( ) the source MAC address and the incoming port

8. Refer to the exhibit. The exhibit shows a small switched network and the 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? * 1 point



- ( ) 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

- [x] source physical address
- [ ] source logical address
- [ ] media type identifier
- [x] frame check sequence
- [x] destination physical address
- [ ] destination logical address

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

- (●) 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 decisions? * 1 point

- (●) 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 at all	( )	( )	( )	( )	(●)	I understand the class very well

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