Pre Test Chapter 4

Total points   0/0   ?

Enter Your name *

Apoorva Jinde

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1. Which of the following statements about MAC addresses are in correct ? *

- ☐ Ethernet uses MAC address to identify the host
- ☑ MAC address is a logical address that is easy to change
- ☐ The MAC address is fixed in the ROM , usually cannot be changed
- ☑ Usually only the terminal host needs the MAC address, routers and other network devices do not need

2. Connect two switches with an Ethernet cable, and the MDI type of the interconnection port is configured as across , then this Ethernet cable should be _____ . *

- ☑ Only use crossover cables

- ☑ Only use direct-connect cables

- ☑ Both parallel and crossover cables can be used

- ☑ Neither parallel network cable nor cross network cable

3. How does ARP resolve an IP address to an Ethernet MAC address? (describe in one sentence) *

When ARP needs to resolve a given IP address to Ethernet address, it broadcasts an ARP request packet. The ARP request packet contains the source MAC address and the source IP address and the destination IP address. Each host in the local network receives this packet. The host with the specified destination IP address, sends an ARP reply packet to the originating host with its IP address.

4. Is there a separate packet format for ARP request and ARP reply? (Explain in one statement) *

No. Both the ARP request and ARP reply packets use the same format.

5. ARP requests are directed to which MAC address? *

00:00:00:00:00:00

6. _____ physical address is used by Ethernet, which is printed on the network interface card (NIC).

6-byte MAC address

7. 10 users into a hub running with 10kbps half duplex. Even the server connected with the switch running 10kbps half-duplex. How much bandwidth does each host have to the server? *

10kbps

8. Which Internet based transmission technology provides a data rate of 1 billion bits per second. *

Gigabit Ethernet

9. One Ethernet network to another nearby Ethernet network is connected through _____device. *

○ a. gateway

○ b. switch

◉ c. bridged.

○ d. forwarder

10.Which of the following statement is true? *

○ You must have at least two VLANs defined in every Cisco switched network.

○ All VLANs are configured at the fastest switch and, by default, propagate this information to all other switches.

○ You should not have more than 10 switches in the same VTP domain.

◉ VTP is used to send VLAN information to switches in a configured VTP domain.