Review Questions

1. Which part of a MAC address is unique to each manufacturer?

   a. The network identifier

   b. The OUI

   c. The device identifier

   d. The physical address

   Answer: b. The OUI

   Explanation: The first 24 bits of a MAC (Media Access Control) address are known as the **OUI (Organizationally Unique Identifier)**, which identifies the NIC's manufacturer. The last 24 bits make up the extension identifier or device ID and identify the device itself. The entire MAC address is also called a physical address. The first part of an IP address identifies the network.

2. What type of device does a computer turn to when attempting to connect with a host with a known IP address on another network?

   a. Default gateway

   b. DNS server

   c. Root server

   d. DHCP server

   Answer: a. Default gateway

   Explanation: The **default gateway** is the routing device that nodes on the network turn to for access to the outside world. A DNS (Domain Name Service) server helps to find the IP address when that information is not known. A root server is a type of DNS server. A DHCP (Dynamic Host Configuration Protocol) server manages the dynamic distribution of IP addresses to devices on a network.

3. What decimal number corresponds to the binary number 11111111?

   a. 255

   b. 256

   c. 127

   d. 11,111,111

   Answer: a. 255

   Explanation: The largest possible 8-bit number is 11111111, which is equal to **255** in decimal. When counting 00000000, there are 256 possible 8-bit values for each octet in an IPv4 address. An IPv4 loopback address can fall anywhere in the range of 127.0.0.1 through

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G Thomas

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