ISLEVER

100-101

CCNA Interconnecting Cisco Networking Devices 1 (ICND1)

DEMO

https://www.islever.com/100-101.html

https://www.islever.com/cisco.html

For the most up-to-date exam questions and materials, we recommend visiting our website, where you can access the latest content and resources.

Topic 1, Operation of IP Data Networks

QUESTION NO: 1

Which three statements are true about the operation of a full-duplex Ethernet network? (Choose three.)

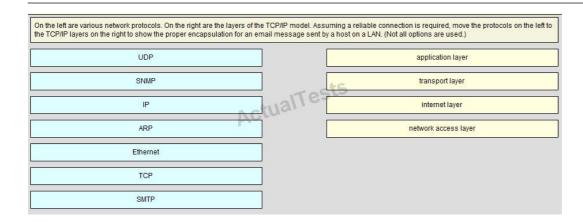
- **A.** There are no collisions in full-duplex mode.
- **B.** A dedicated switch port is required for each full-duplex node.
- **C.** Ethernet hub ports are preconfigured for full-duplex mode.
- **D.** In a full-duplex environment, the host network card must check for the availability of the network media before transmitting.
- **E.** The host network card and the switch port must be capable of operating in full-duplex mode.

Answer: A,B,E Explanation:

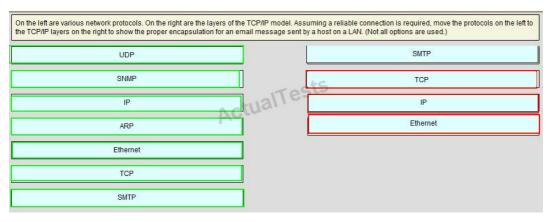
Half-duplex Ethernet is defined in the original 802.3 Ethernet and Cisco says you only use one wire pair with a digital signal running in both directions on the wire. It also uses the CSMA/CD protocol to help prevent collisions and to permit retransmitting if a collision does occur. If a hub is attached to a switch, it must operate in half-duplex mode because the end stations must be able to detect collisions. Half-duplex Ethernet—typically 10BaseT—is only about 30 to 40 percent efficient as Cisco sees it, because a large 10BaseT network will usually only give you 3- to 4Mbps—at most.

Full-duplex Ethernet uses two pairs of wires, instead of one wire pair like half duplex. Also, full duplex uses a point-to-point connection between the transmitter of the transmitting device and the receiver of the receiving device, which means that with full-duplex data transfer, you get a faster data transfer compared to half duplex. And because the transmitted data is sent on a different set of wires than the received data, no collisions occur. The reason you don't need to worry about collisions is because now Full-duplex Ethernet is like a freeway with multiple lanes instead of the single-lane road provided by half duplex. Full-duplex Ethernet is supposed to offer 100 percent efficiency in both directions; this means you can get 20Mbps with a 10Mbps Ethernet running full duplex, or 200Mbps for FastEthernet.

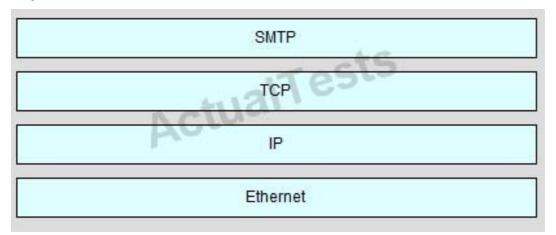
QUESTION NO: 2 DRAG DROP



Answer:



Explanation:



QUESTION NO: 3

Which OSI layer header contains the address of a destination host that is on another network?

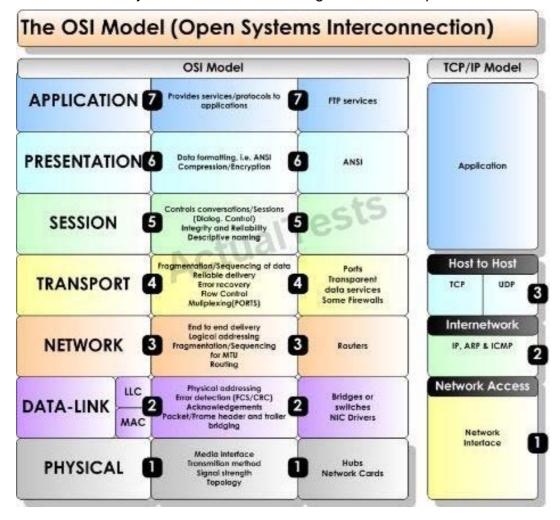
A. application

- B. session
- C. transport
- D. network
- E. data link
- **F.** physical

Answer: D

Explanation: Explanation/Reference:

Only network address contains this information. To transmit the packets the sender uses network address and datalink address. But the layer 2 address represents just the address of the next hop device on the way to the sender. It is changed on each hop. Network address remains the same.



QUESTION NO: 4

Which layer of the TCP/IP stack combines the OSI model physical and data link layers?

A. Internet layer