Networking Basics Due Feb 22, 4:59 AM -03 GRADE ✓ Congratulations! You passed! Keep Learning 100% TO PASS 80% or higher **Networking Basics** LATEST SUBMISSION GRADE 100% 1/1 point 1. Question When data can flow across a cable in both directions, this is known as ____ communication. ethernet simplex oross talk duplex ✓ Correct Wohoo! Duplex communication occurs when data flows in both directions. 1/1 point Question The transmission method that sends data to every device on a LAN is known as a ____ transmission. broadcast unicast multicast simulcast ✓ Correct Awesome! Broadcast transmissions are used to communicate with every node on a network segment. 1/1 point Question Something that requests data from a server is known as a ____. switch outer server client ✓ Correct Yep! A client requests data, and a server responds to that request. 1/1 point Question A device that connects lots of devices and remembers which ones are connected to each interface is known as a ____. hub switch outer server ✓ Correct Great work! By remembering which devices are connected to each interface, a switch reduces collision domains. 5. Question 1/1 point A defined set of standards that computers must follow in order to communicate properly is known as switch ocollision domain modulation protocol ✓ Correct Good job! Protocols help define standards so that different computers can communicate with each other. 6. Question 1/1 point What layer in the Transmission Control Protocol/Internet Protocol (TCP/IP) model does IP use? Physical Network O Data link Transport ✓ Correct You got it! The network layer is also sometimes called the internet layer. The most common protocol used at this layer is Internet Protocol (IP). 7. Question 1/1 point A user has multiple web pages open and is using email. Which layer of the Transmission Control Protocol/Internet Protocol (TCP/IP) model is responsible for sorting the data to send email and web pages to the appropriate location? Network Transport Application Data link ✓ Correct Well done! The transport layer is responsible for sorting out which client and server programs are supposed to get data. 1/1 point 8. Question What type of cable communicates binary data by changing the voltage between two ranges? Fiber Copper Silver Gold ✓ Correct Awesome! Copper cables communicate binary data across wires by changing the voltage between two ranges. 9. Question 1/1 point Multiple systems try to send data at the same time. The electrical pulses sent across the cable interfere with each other. What type of network segment is being used? Local Area Network (LAN) Wide Area Network (WAN) Collision domain Subnet ✓ Correct You got it! A collision domain is a network segment where only one device can communicate at a time. 1/1 point 10. Question A user logs on to a laptop and opens her email. What device will provide emails to the laptop? Router Server O Hub Switch ✓ Correct Right on! A server is anything that provides data to a client. 1/1 point 11. Question How many wires are in a standard Category 6 cable? 0 10 ✓ Correct You nailed it! A standard Cat6 cable has 8 wires that consist of four twisted pairs inside of a single jacket. 1/1 point 12. Question Select the device that will have the most network ports. Switch Laptop Server Desktop ✓ Correct You got it! A switch will have the most network ports, because its purpose is to connect many devices. 1/1 point 13. Question Which layer abstracts away the need for any other layers to care about what hardware is in use? Data link Physical Network Transport ✓ Correct Well done! One of the primary purposes of the data link layer is to essentially abstract away the need for any other layers to care about the physical layer and what hardware is in use. 14. Question 1/1 point What does the letter B represent in a Media Access Control (MAC) address? O 15 0 10 ✓ Correct Well done! Since we don't have numerals to represent any individual digit larger than 9, hexadecimal numbers employ the letters A, B, C, D, E and F to represent the numbers 10, 11, 12, 13, 14 and 15. 15. Question 1 / 1 point What section in an ethernet frame will you find a Virtual Local Area Network (VLAN) header? Frame Check Sequence EtherType field

Preamble

Payload

✓ Correct

16. Question

Woohoo! You may find a VLAN header in the EtherType field. This will indicate that the frame is called a VLAN

You nailed it! The SFD is found in the last byte of the preamble, and signals to a receiving device that the

Where is the Start Frame Delimiter (SFD) found in an ethernet frame?

preamble is over, and that the actual frame contents will now follow.

The first byte of the EtherType field

The last byte of the EtherType field

The last byte of the preamble

The first byte of the preamble

✓ Correct

1/1 point