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CCNA 1 (v5.1 + v6.0) Chapter 3 Exam Answers 2018 – 100% Full

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1. What method can be used by two computers to ensure that packets are not dropped because too much data is being sent too quickly?

- encapsulation
- **flow control***
- access method
- response timeout

Explain:

In order for two computers to be able to communicate effectively, there must be a mechanism that allows both the source and destination to set the timing of the transmission and receipt of data. Flow control allows for this

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by ensuring that data is not sent too fast for it to be received properly.

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2. What type of communication will send a message to all devices on a local area network?

- **broadcast***
- multicast
- unicast
- allcast

Explain:Broadcast communication is a one-to-all communication. A unicast communication is a one-to-one communication. Multicast is a one-to-many communication where the message is delivered to a specific group of hosts. Allcast is not a standard term to describe message delivery.

3. What process is used to place one message inside another message for transfer from the source to the destination?

- access control
- decoding
- **encapsulation***
- flow control

Explain:Encapsulation is the process of placing one message format into another message format. An example is how a packet is placed in its entirety into the data field as it is encapsulated into a frame.

4. A web client is sending a request for a webpage to a web server. From the perspective of the client, what is the correct order of the protocol stack that is used to prepare the request for transmission?

- HTTP, IP, TCP, Ethernet
- **HTTP, TCP, IP, Ethernet***
- Ethernet, TCP, IP, HTTP
- Ethernet, IP, TCP, HTTP

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CCNA 1 - Pretest

CCNA 1 - Chapter 1

CCNA 1 - Chapter 2

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Explain:

1. HTTP governs the way that a web server and client interact.
2. TCP manages individual conversations between web servers and clients.
3. IP is responsible for delivery across the best path to the destination.
4. Ethernet takes the packet from IP and formats it for transmission.

5. Which statement is correct about network protocols?

- Network protocols define the type of hardware that is used and how it is mounted in racks.
- **They define how messages are exchanged between the source and the destination.***
- They all function in the network access layer of TCP/IP.
- They are only required for exchange of messages between devices on remote networks.

Explain:

Network protocols are implemented in hardware, or software, or both. They interact with each other within different layers of a protocol stack. Protocols have nothing to do with the installation of the network equipment. Network protocols are required to exchange information between source and destination devices in both local and remote networks.

6. Which statement is true about the TCP/IP and OSI models?

- **The TCP/IP transport layer and OSI Layer 4 provide similar services and functions.***
- The TCP/IP network access layer has similar functions to the OSI network layer.
- The OSI Layer 7 and the TCP/IP application layer provide identical functions.
- The first three OSI layers describe general services that are also provided by the TCP/IP internet layer.

Explain:

The TCP/IP internet layer provides the same function as the OSI network layer. The transport layer of both the TCP/IP and OSI models provides the same function. The TCP/IP application layer includes the same functions as OSI Layers 5, 6, and 7.

7. What is an advantage of using standards to develop and implement protocols?

- A particular protocol can only be implemented by one manufacturer.
- **Products from different manufacturers can interoperate successfully.***
- Different manufacturers are free to apply different requirements when implementing a protocol.
- Standards provide flexibility for manufacturers to create devices that comply with unique requirements.

Explain:

Standards-based protocols enable products from different manufacturers to interoperate successfully. Standards-based protocols enable many manufacturers to implement that protocol. If different manufacturers implement different requirements within the same protocol, then their products will not be interoperable.

8. What three application layer protocols are part of the TCP/IP protocol suite? (Choose three.)

- ARP
- **DHCP ***
- **DNS ***
- **FTP***
- NAT
- PPP

Explain:

DNS, DHCP, and FTP are all application layer protocols in the TCP/IP protocol suite. ARP and PPP are network access layer protocols, and

NAT is an internet layer protocol in the TCP/IP protocol suite.

9. What are proprietary protocols?

- protocols developed by private organizations to operate on any vendor hardware
- protocols that can be freely used by any organization or vendor
- **protocols developed by organizations who have control over their definition and operation***
- a collection of protocols known as the TCP/IP protocol suite

Explain:

Proprietary protocols have their definition and operation controlled by one company or vendor. Some of them can be used by different organizations with permission from the owner. The TCP/IP protocol suite is an open standard, not a proprietary protocol.

10. What is an advantage of network devices using open standard protocols?

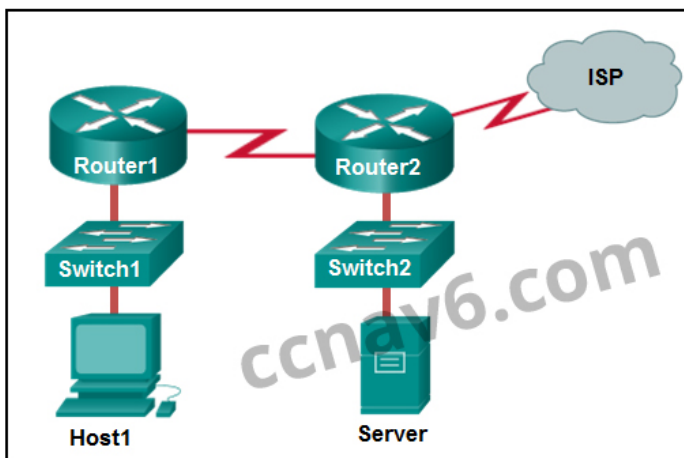
- Network communications is confined to data transfers between devices from the same vendor.
- **A client host and a server running different operating systems can successfully exchange data.***
- Internet access can be controlled by a single ISP in each market.
- Competition and innovation are limited to specific types of products.

Explain:

An advantage of network devices implementing open standard protocols, such as from the TCP/IP suite, is that clients and servers running different operating systems can communicate with each other. Open standard protocols facilitate innovation and competition between vendors and across markets, and can reduce

the occurrence of monopolies in networking markets.

11. Refer to the exhibit. If Host1 were to transfer a file to the server, what layers of the TCP/IP model would be used?



- only application and Internet layers
- only Internet and network access layers
- only application, Internet, and network access layers
- **application, transport, Internet, and network access layers***
- only application, transport, network, data link, and physical layers
- application, session, transport, network, data link, and physical layers

Explain:

The TCP/IP model contains the application, transport, internet, and network access layers. A file transfer uses the FTP application layer protocol. The data would move from the application layer through all of the layers of the model and across the network to the file server.

12. Which three layers of the OSI model are comparable in function to the application layer of the TCP/IP model? (Choose three.)

- **application ***
- **presentation ***
- **session***
- transport

- data link
- physical
- network

Explain:

The TCP/IP model consists of four layers: application, transport, internet, and network access. The OSI model consists of seven layers: application, presentation, session, transport, network, data link, and physical. The top three layers of the OSI model: application, presentation, and session map to the application layer of the TCP/IP model.

13. At which layer of the OSI model would a logical address be encapsulated?

- physical layer
- data link layer
- **network layer***
- transport layer

Explain:

Logical addresses, also known as IP addresses, are encapsulated at the network layer. Physical addresses are encapsulated at the data link layer. Port addresses are encapsulated at the transport layer. No addresses are encapsulated at the physical layer.

14. At which layer of the OSI model would a logical address be added during encapsulation??

- physical layer
- data link layer
- **network layer***
- transport layer

Explain:

Logical addresses, also known as IP addresses, are encapsulated at the network layer. Physical addresses are encapsulated at the data link layer. Port addresses are encapsulated at the transport layer. No addresses are encapsulated at the physical layer.

15. Which PDU format is used when bits are received from the network medium by the NIC of a host?

- file
- **frame***
- packet
- segment

Explain:

When received at the physical layer of a host, the bits are formatted into a frame at the data link layer. A packet is the PDU at the network layer. A segment is the PDU at the transport layer. A file is a data structure that may be used at the application layer.

16. Which PDU is processed when a host computer is de-encapsulating a message at the transport layer of the TCP/IP model?

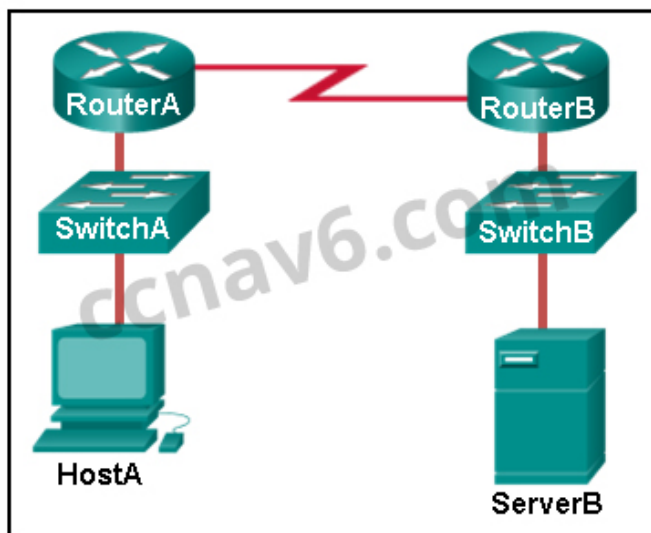
- bits
- frame
- packet
- **segment***

Explain:

At the transport layer, a host computer will de-encapsulate a segment to reassemble data to an acceptable format by the application layer protocol of the TCP/IP model.

17. Refer to the exhibit. HostA is attempting to contact ServerB. Which two statements correctly describe the addressing that HostA will generate

in the process? (Choose two.)



- A packet with the destination IP address of RouterB.
- A frame with the destination MAC address of SwitchA.
- A packet with the destination IP address of RouterA.
- **A frame with the destination MAC address of RouterA.***
- **A packet with the destination IP address of ServerB.***
- A frame with the destination MAC address of ServerB.

Explain:

In order to send data to ServerB, HostA will generate a packet that contains the IP address of the destination device on the remote network and a frame that contains the MAC address of the default gateway device on the local network.

18. Which address does a NIC use when deciding whether to accept a frame?

- source IP address
- source MAC address
- destination IP address
- **destination MAC address***
- source Ethernet address

19. What will happen if the default gateway address is incorrectly configured on a host?

- The host cannot communicate with other hosts in the local network.
- The switch will not forward packets initiated by the host.
- The host will have to use ARP to determine the correct address of the default gateway.
- **The host cannot communicate with hosts in other networks.***
- A ping from the host to 127.0.0.1 would not be successful.

Explain:

When a host needs to send a message to another host located on the same network, it can forward the message directly. However, when a host needs to send a message to a remote network, it must use the router, also known as the default gateway. This is because the data link frame address of the remote destination host cannot be used directly. Instead, the IP packet has to be sent to the router (default gateway) and the router will forward the packet toward its destination. Therefore, if the default gateway is incorrectly configured, the host can communicate with other hosts on the same network, but not with hosts on remote networks.

20. Which characteristic describes the default gateway of a host computer?

- **the logical address of the router interface on the same network as the host computer***
- the physical address of the switch interface connected to the host computer
- the physical address of the router interface on the same network as the host computer
- the logical address assigned to the switch interface connected to the router

Explain:

The default gateway is the IP address of an interface on the router on the same network as the sending host.

21. Match the description to the organization. (Not all options are used.)

Question as presented:

Match the description to the organization. (Not all options are used.)

This organization is responsible for overseeing and managing IP address allocation, domain name management, and protocol identifiers.	ISOC
This organization is the largest developer of international standards in the world for a wide variety of products and services. It is known for its Open Systems Interconnection (OSI) reference model.	ISO
This organization promotes the open development, evolution, and use of the Internet throughout the world.	EIA
	IANA

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This organization promotes the open development, evolution, and use of the Internet throughout the world.	EIA
	IANA

Red arrows indicate the correct matches: ISOC to the first description, ISO to the second, and IANA to the third. EIA is not matched.

ISOC -> The organization promotes the open development, evolution, and use of the internet throughout the world

ISO -> This organization is the largest developer of international standards in the world for a wide variety of products and services. It is known for its Open System Interconnection (OSI) reference model.

IANA -> This organization is responsible for overseeing and managing IP address allocation, domain name management, and protocol identifiers

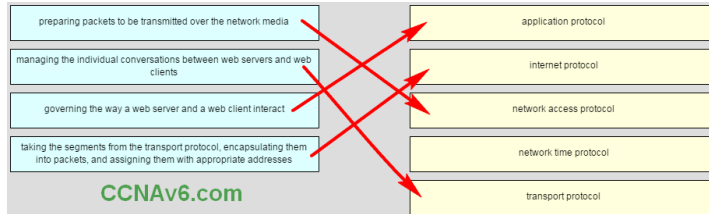
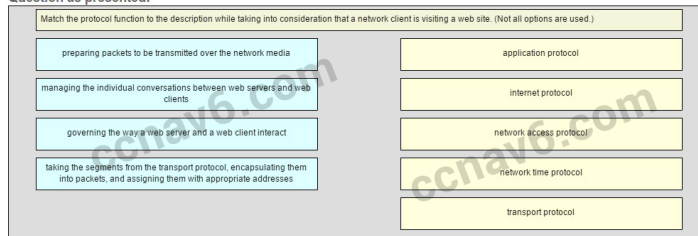
Explain:

The EIA is an international standards and trade organization for electronics organizations. It is best known for its standards related to electrical wiring, connectors, and the 19-inch racks used to mount networking equipment.

22. Match the protocol function to the description while taking into consideration that a network client is visiting a web site. (Not all options are

used.)

Question as presented:



Place the options in the following order:

governing the way a web server and a web client interact → application protocol

taking the segments from transport protocol, encapsulating them into packets, and assigning them with appropriate addresses → internet protocol
preparing packets to be transmitted over the network media → network access protocol

– not scored –

managing the individual conversations between web servers and web clients → transport protocol

Explain:

When a web client visits a web server, several network communication protocols are involved. These different protocols work together to ensure that the messages are received and understood by both parties. These protocols include the following:

Application Protocol – governing the way a web server and a web client interact

Transport Protocol – managing the individual conversations between web servers and web clients

Internet Protocol – taking the formatted segments from the transport protocol, encapsulating them into packets, assigning them the appropriate addresses, and delivering them across the best path to the destination host

Network Access Protocol – preparing packets to be transmitted over the network media

Network Time Protocol is used to synchronize clocks between computer systems. It is not involved in this case.

23. Match each description to its corresponding term.

(Not all options are used.)

Question as presented:

Match each description to its corresponding term. (Not all options are used.)

message encoding	the process of determining when to begin sending messages on a network
message sizing	the process of converting information from one format into another acceptable for transmission
message encapsulation	the process of placing one message format inside another message format
	the process of unpacking one message format from another message format
	the process of breaking up a long message into individual pieces before being sent over the network

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message encoding	the process of determining when to begin sending messages on a network
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	the process of breaking up a long message into individual pieces before being sent over the network

Red arrows indicate the correct matches: message encoding to the process of converting information from one format into another acceptable for transmission; message encapsulation to the process of placing one message format inside another message format; message sizing to the process of breaking up a long message into individual pieces before being sent over the network.

Place the options in the following order:

– not scored –

message encoding -> the process of converting information from one format into another acceptable for transmission

message encapsulation -> the process of placing one message format inside another message format

– not scored –

message sizing -> the process of breaking up a long message into individual pieces before being sent over the network

Other Questions

1. A computer in a given network is communicating with a specific group of computers. What type of communication is this?

- broadcast
- **multicast***
- unicast
- ARP
- HTTP

2. Which protocol is responsible for controlling the size and rate of the HTTP messages exchanged between server and client?

- HTTP
 - ARP
 - **TCP***
 - DHCP
3. A user is viewing an HTML document located on a web server. What protocol segments the messages and manages the segments in the individual conversation between the web server and the web client?
- DHCP
 - **TCP***
 - HTTP
 - ARP
4. Which IEEE standard enables a wireless NIC to connect to a wireless AP that is made by a different manufacturer?
- 802.1
 - **802.11***
 - 802.3
 - 802.2
5. What is a function of Layer 4 of the OSI model?
- to specify the packet type to be used by the communications
 - to apply framing information to the packet, based on the attached media
 - to represent data to the user, including encoding and dialog control
 - **to describe the ordered and reliable delivery of data between source and destination***
6. What is a benefit of using a layered model for network communications?
- **fostering competition among device and software vendors by enforcing the compatibility of their products***
 - enhancing network transmission performance by defining targets for each layer
 - avoiding possible incompatibility issues by using a common set of developing tools
 - simplifying protocol development by limiting every layer to one function
7. What is the general term that is used to describe a piece of data at any layer of a networking model?
- frame
 - packet
 - **protocol data unit***
 - segment

8. Which statement accurately describes a TCP/IP encapsulation process when a PC is sending data to the network?

- Data is sent from the internet layer to the network access layer.
- Packets are sent from the network access layer to the transport layer.
- **Segments are sent from the transport layer to the internet layer.***
- Frames are sent from the network access layer to the internet layer.

9. What statement describes the function of the Address Resolution Protocol?

- ARP is used to discover the IP address of any host on a different network.
- ARP is used to discover the IP address of any host on the local network.
- ARP is used to discover the MAC address of any host on a different network.
- **ARP is used to discover the MAC address of any host on the local network.***

10. Which address provides a unique host address for data communications at the internet layer?

- data-link address
- **logical address***
- Layer 2 address
- physical address

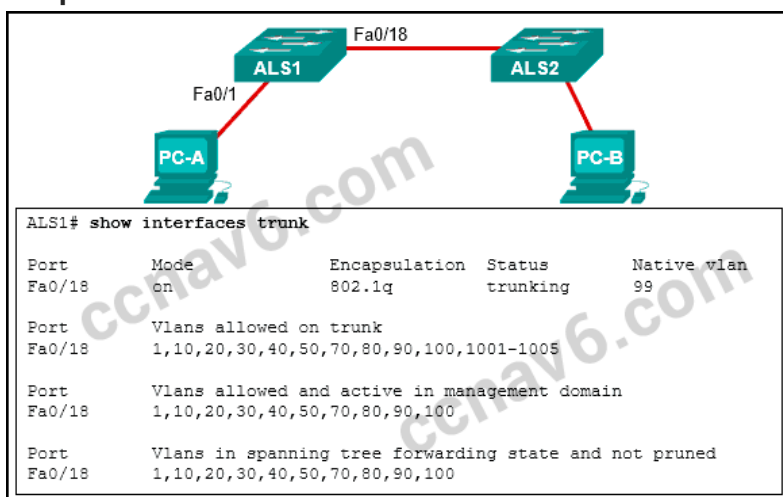
11. Which protocol is used by a computer to find the MAC address of the default gateway on an Ethernet network?

- **ARP***
- TCP
- UDP
- DHCP

12. If the default gateway is configured incorrectly on the host, what is the impact on communications?

- The host is unable to communicate on the local network.
- **The host can communicate with other hosts on the local network, but is unable to communicate with hosts on remote networks.***
- The host can communicate with other hosts on remote networks, but is unable to communicate with hosts on the local network.
- There is no impact on communications.

13. Open the PT Activity. Perform the tasks in the activity instructions and then answer the question. Based on the configured network, what IP address would PC1 and PC2 use as their default gateway?
- 192.168.1.2
 - 10.1.1.1
 - 172.16.1.1
 - **192.168.1.1***
 - 192.168.1.10
14. A user sends an HTTP request to a web server on a remote network. During encapsulation for this request, what information is added to the address field of a frame to indicate the destination?
- the MAC address of the default gateway***
- the IP address of the destination host
- the MAC address of the destination host
- the IP address of the default gateway
15. Refer to the exhibit. PC-A and PC-B are both in VLAN 60. PC-A is unable to communicate with PC-B. What is the problem?



The native VLAN is being pruned from the link.

The trunk has been configured with the switchport nonegotiate command.

The native VLAN should be VLAN 60.

The VLAN that is used by PC-A is not in the list of allowed VLANs on the trunk.*

16. Which command is used to remove only VLAN 20 from a switch?
- no switchport access vlan 20
- no vlan 20 ***
- delete vlan.dat

delete flash:vlan.dat

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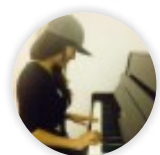


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Tuyet Ha



Thanks so much, 100% pass, i love this site 😊

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isah ibrahim Alhaji



this is a very good idea, i like it

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Mike



Hello.

Excellent job. But in Question 16 (Host A and Server B) the correct answers are (i suppose):

» A frame with the destination MAC address of RouterA.*

»A packet with the destination IP address of ServerB.

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miley



Hi, the answers of the question 16 are:

A frame with the destination MAC address of RouterA.

A packet with the destination IP address of ServerB.

can ypu verify it?

Thanks for all.

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Author

ok, thanks you very much!

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Neo T



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13. "At which layer of the OSI model would a logical address be encapsulated?"

On exam is: "At which layer of the OSI model would a logical address be ADDED DURING ENCAPSULATION?" pls fix it.

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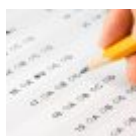
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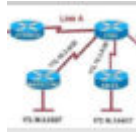
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