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Cisco
500-301
Cisco Cloud Collaboration Solutions

Question: 192
Refer to the exhibit.




| Destination MAC | Source MAC | Destination IP | Source IP |
| :---: | ---: | ---: | ---: |
| $0000.000 \mathrm{c} .0123 / 0000.000 \mathrm{c} .0124$ | 10.1 .2 .2 | 10.1 .3 .3 |  |


A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

Answer: B

## Explanation:

 For the MAC address it is going to change each time it goes from one hope to another. (Except switches... they don't change anything) Frame leaving HOST 1 is going to have a source MAC of Host 1 and a destination MAC of Router 1.
Router 1 is going to strip that info off and then will make the source MAC address of Router1's exiting interface, and making Router2's interface as the destination MAC address.
Then the same will happen... Router2 is going to change the source/destination info to the source MAC being the Router2 interface that it is going out, and the destination will be Host2's MAC address.
Question: 193
Refer to the exhibit.


As packets travel from Mary to Robert, which three devices will use the destination MAC address of the packet to determine a forwarding path? (Choose three.)
A. Hub1
B. Switch1
C. Souter
C. Router
D. Switch2
E. Router2
F. Switch3

Answer: BDF

## Explanation:

Switches use the destination MAC address information for forwarding traffic, while routers use the destination IP address information.

 address. Being able to listen to the traffic also allows the switches and bridges to compile a MAC address table to better filter and forward network traffic.
To accomplish the above functions switches and bridges carry out the following tasks:
 MAC address to port map that is cataloged in the switches/bridge MAC database. Another name for the MAC address table is content addressable memory or CAM table.


Question: 194
Refer to the exhibit.


The host in Kiev sends a request for an HTML document to the server in Minsk. What will be the source IP address of the packet as it leaves the Kiev router?
A. 10.1.0.1
B. 10.1.0.5
C. 10.1.0.6
D. 10.1.0.14
E. 10.1.1.16
F. 10.1.2.8

Answer: E
 Question: 195

Which network device functions only at Layer 1 of the OSI model?
B)

C)

D)

E)

```
switch
```

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

Answer: B

Explanation
Most hubs are amplifying the electrical signal; therefore, they are really repeaters with several ports. Hubs and repeaters are Layer 1 (physical layer) devices. Question: 196


HostX is transferring a file to the FTP server. Point A represents the frame as it goes toward the Toronto router. What will the Layer 2 destination address be at this point?

## A. abcd.1123.004

B. 192.168.7.17
C. aabb.5555.2222
D. 192.168.1.1
E. abcd.2246.0035

Answer: E
Explanation:
 which is Toronto.
Question: 197
Refer to the exhibit.


If host A sends an IP packet to host B, what will the source physical address be in the frame when it reaches host B?
A. 10.168.10.99
B. 10.168.11.88
C. A1:A1:A1:A1:A1:A1
D. B2:B2:B2:B2:B2:B2
Е. С3:С3:С3:С3:С3:С3
F. D4:D4:D4:D4:D4:D4

Answer: E
Explanation:
 Similarly, the destination IP address always remains the same and the destination physical (MAC) address is the destination routerâs interface address.
Question: 198
Refer to the exhibit.


If the hubs in the graphic were replaced by switches, what would be virtually eliminated?
A. broadcast domains
B. repeater domains
C. Ethernet collisions
D. signal amplification
E. Ethernet broadcasts

Answer: C

## Explanation:

 possibility of collisions is eliminated entirely in the case of full duplex links.
Question: 199
Which protocol uses a connection-oriented service to deliver files between end systems?

## A. TFTP

B. DNS
C. FTP
D. SNMP
E. RIP

Answer: C

## Explanation:


 the message can be delivered.
 client and server processes. The connection-oriented protocols in the
OSI protocol suite, on the other hand, do not support orderly release. Applications perform any handshake necessary for ensuring orderly release.

Which layer of the TCP/IP stack combines the OSI model physical and data link layers?
A. Internet layer
B. transport layer
C. application layer
D. network access layer

## Answer: D

## Explanation:


 DOD's goal was to bring international standards which could not be met by the OSI model.
Since the DOD was the largest software consumer and they preferred the TCP/IP suite, most vendors used this model rather than the OSI. Below is a side by side comparison of the TCP/IP and OSI models.

## The OSI Model (Open Systems Interconnection)



Question: 201
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

## Explanation:

 changed on each hop. Network address remains the same.

## The OSI Model (Open Systems Interconnection)



Question: 202
DRAG DROP
 for an email message sent by a host on a LAN. (Not all options are used.)
Select and Place:

| On the left are various network protocols. On the right are the layers of the TCPIP model. Assuming a reliable connection is required, move the protocols on the left to the TCPIP layers on the right to show the proper encapsulation for an email message sent by a host on a LAN. (Not all options are used.) |  |
| :---: | :---: |
| UDP | application layer |
| SNMP | transport layer |
| IP | internet layer |
| ARP | network access layer |
| Ethernet |  |
| TCP |  |
| SMTP |  |



Question: 203
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: ABE

## Explanation:


 30 to 40 percent efficient as Cisco sees it, because a large 10BaseT network will usually only give you 3- to 4Mbps â at most.


 in both directions; this means you can get 20Mbps with a 10Mbps Ethernet running full duplex, or 200Mbps for FastEthernet.

# These questions are for demo purpose only. Full version is up to date and contains actual questions and answers. 


#### Abstract

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