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QUESTION 1

Which statement about IPv6 is true?

- A. Addresses are not hierarchical and are assigned at random.
- B. Only one IPv6 address can exist on a given interface.
- C. There are 2.7 billion addresses available.
- D. Broadcasts have been eliminated and replaced with multicasts.

Correct Answer: D

[http://technet.microsoft.com/en-us/library/cc757359\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc757359(v=ws.10).aspx)

IPv6 has three types of addresses, which can be categorized by type and scope:

Unicast addresses. A packet is delivered to one interface. Multicast addresses. A packet is delivered to multiple interfaces. Anycast addresses. A packet is delivered to the nearest of multiple interfaces (in terms of routing distance).

IPv6 does not use broadcast messages.

Unicast and anycast addresses in IPv6 have the following scopes (for multicast addresses, the scope are built into the address structure):

Link-local. The scope is the local link (nodes on the same subnet). Site-local. The scope is the organization (private site addressing). Global. The scope is global (IPv6 Internet addresses). In addition, IPv6 has special addresses such as the

loopback address. The scope of a special address depends on the type of special address.

Much of the IPv6 address space is unassigned.

QUESTION 2

Refer to the output of the corporate router routing table shown in the graphic.



```
Corp#show ip route
...
Gateway of last resort is not set

C 192.168.13.0/24 is directly connected, Serial0/1
C 192.168.14.0/24 is directly connected, FastEthernet0/0
C 192.168.15.0/24 is directly connected, Serial0/0.102
C 192.168.20.0/24 is directly connected, Serial0/0.117
R 192.168.21.0/24 [120/3] via 192.168.15.2, 00:00:05, Serial0/0.102
R 192.168.21.0/24 [120/3] via 192.168.15.2, 00:00:05, Serial0/0.102
R 192.168.21.0/24 [120/3] via 192.168.20.2, 00:00:25, Serial0/0.117
R 192.168.21.0/24 [120/3] via 192.168.20.2, 00:00:25, Serial0/0.117
R 192.168.21.0/24 [120/3] via 192.168.20.2, 00:00:25, Serial0/0.117
R 192.168.214.0/24 [120/1] via 192.168.14.2, 00:00:22, FastEtherne
```

The corporate router receives an IP packet with a source IP address of 192.168.214.20 and a destination address of 192.168.22.3.

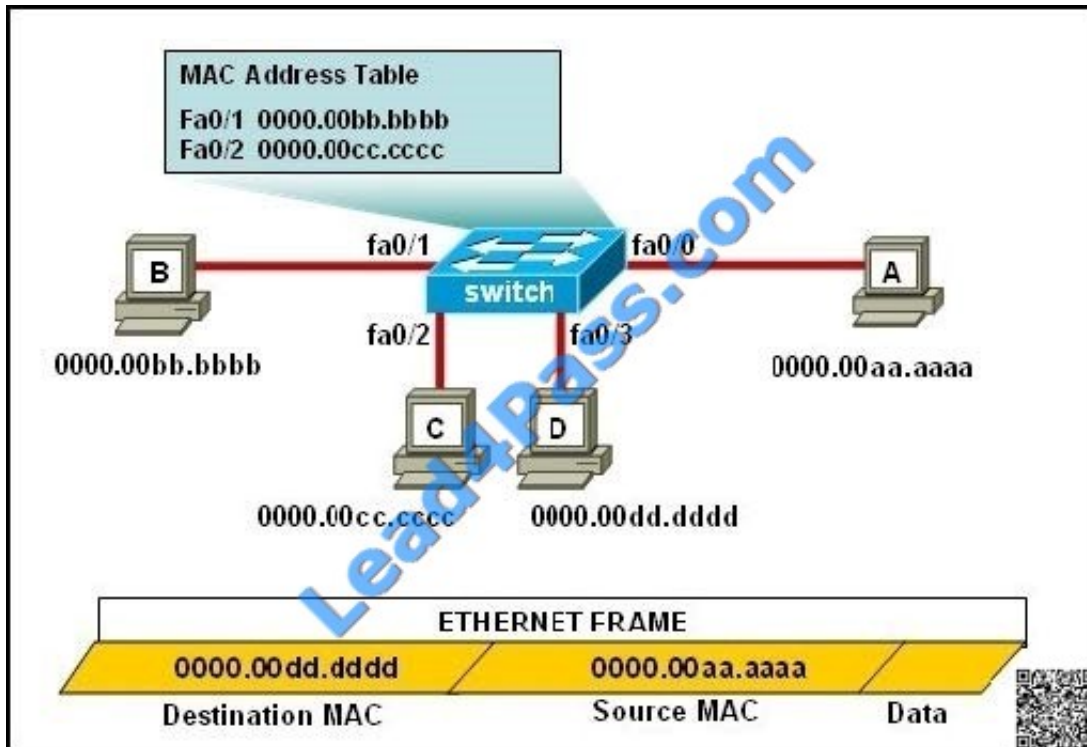
What will the router do with this packet?

- A. It will encapsulate the packet as Frame Relay and forward it out interface Serial 0/0.117.
- B. It will discard the packet and send an ICMP Destination Unreachable message out interface FastEthernet 0/0.
- C. It will forward the packet out interface Serial 0/1 and send an ICMP Echo Reply message out interface serial 0/0.102.
- D. It will change the IP packet to an ARP frame and forward it out FastEthernet 0/0.

Correct Answer: B

QUESTION 3

Refer to the exhibit.



The ports that are shown are the only active ports on the switch. The MAC address table is shown in its entirety. The Ethernet frame that is shown arrives at the switch.

What two operations will the switch perform when it receives this frame? (Choose two.)

- A. The MAC address of 0000.00aa.aaaa will be added to the MAC address table.
- B. The MAC address of 0000.00dd.dddd will be added to the MAC address table.
- C. The frame will be forwarded out port fa0/3 only.
- D. The frame will be forwarded out fa0/1, fa0/2, and fa0/3.
- E. The frame will be forwarded out all the active ports.

Correct Answer: AD

If the switch already has the MAC address in its table for the destination, it will forward the frame directly to the destination port. If it was not already in its MAC table, then the frame would have been flooded out all ports except for the port that it came from. It will also add the MAC address of the source device to its MAC address table

QUESTION 4

A receiving host has failed to receive all of the segments that it should acknowledge. What can the host do to improve the reliability of this communication session?

- A. decrease the window size
- B. use a different source port for the session

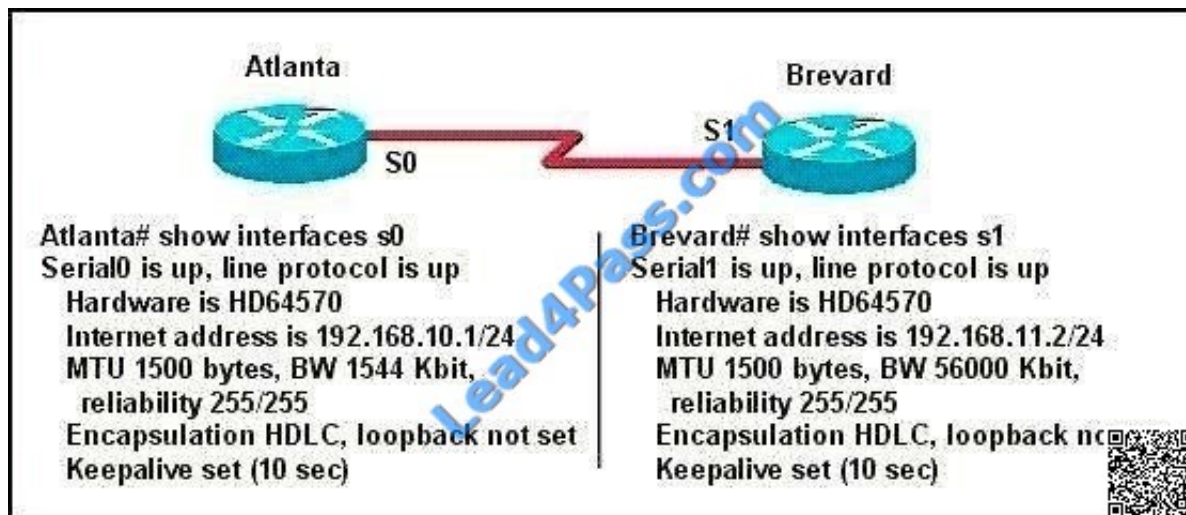


- C. decrease the sequence number
- D. obtain a new IP address from the DHCP server
- E. start a new session using UDP

Correct Answer: A

QUESTION 5

Two routers named Atlanta and Brevard are connected by their serial interfaces as shown in the exhibit, but there is no data connectivity between them. The Atlanta router is known to have a correct configuration.



Given the partial configurations shown in the exhibit, what is the problem on the Brevard router that is causing the lack of connectivity?

- A. A loopback is not set.
- B. The IP address is incorrect.
- C. The subnet mask is incorrect.
- D. The serial line encapsulations are incompatible.
- E. The maximum transmission unit (MTU) size is too large.
- F. The bandwidth setting is incompatible with the connected interface.

Correct Answer: B



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