



# 100-101<sup>Q&As</sup>

CCNA Interconnecting Cisco Networking Devices 1 (ICND1)

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### QUESTION 1

Identify the four valid IPv6 addresses. (Choose four.)

- A. ::
- B. ::192:168:0:1
- C. 2000::
- D. 2001:3452:4952:2837::
- E. 2002:c0a8:101::42
- F. 2003:dead:beef:4dad:23:46:bb:101

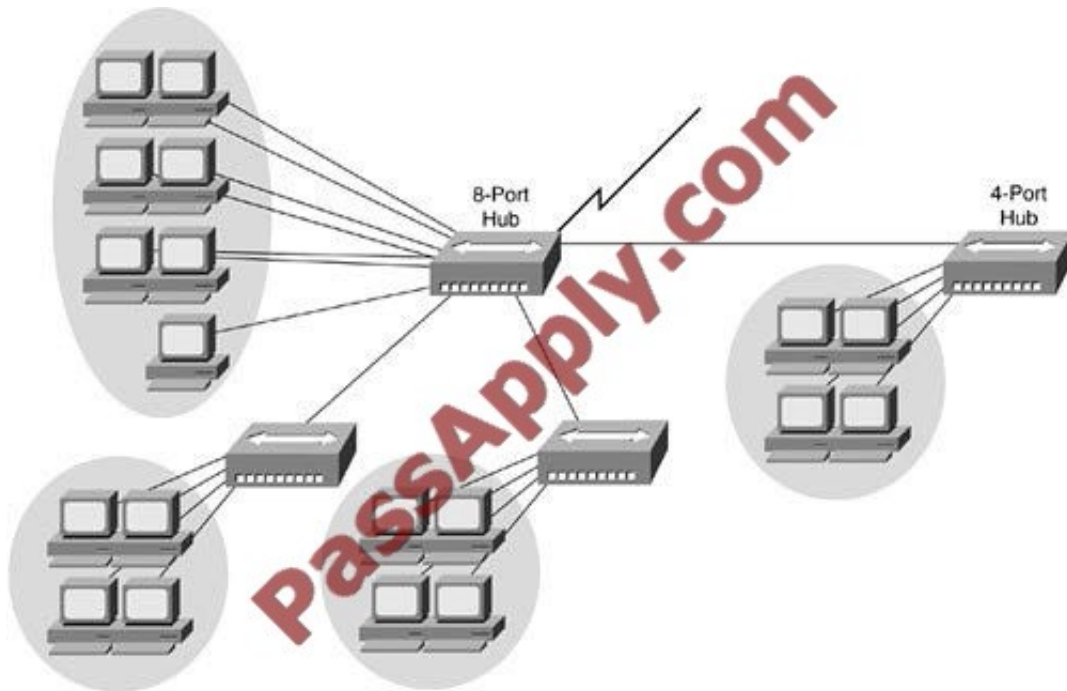
Correct Answer: ABEF

<http://www.intermapper.com/ipv6validator> [http://www.ripe.net/lir-services/new-lir/ipv6\\_reference\\_card.pdf](http://www.ripe.net/lir-services/new-lir/ipv6_reference_card.pdf)

Address	Value	Description
Global	2000::3	These are assigned by the IANA and used on public networks. They are equivalent to IPv4 global (sometimes called public) addresses. ISPs summarize these to provide scalability in the Internet.
Reserved	(range)	Reserved addresses are used for specific types of anycast as well as for future use. Currently about 1/256th of the IPv6 address space is reserved.
Private	FE80::/10	Like IPv4, IPv6 supports private addressing, which is used by devices that don't need to access a public network. The first two digits are FE, and the third digit can range from 8 to F.
Loopback	::1	Like the 127.0.0.1 address in IPv4, 0:0:0:0:0:0:0:1, or ::1, is used for local testing functions; unlike IPv4, which dedicates a complete A class block of addresses for local testing, only one is used in IPv6.
Unspecified	::	0.0.0.0 in IPv4 means "unknown" address. In IPv6, this is represented by 0:0:0:0:0:0:0:0, or ::, and is typically used in the source address field of the packet when an interface doesn't have an address and is trying to acquire one dynamically.

### QUESTION 2

Refer to the exhibit.



If the hubs in the graphic were replaced by switches, what would be virtually eliminated?

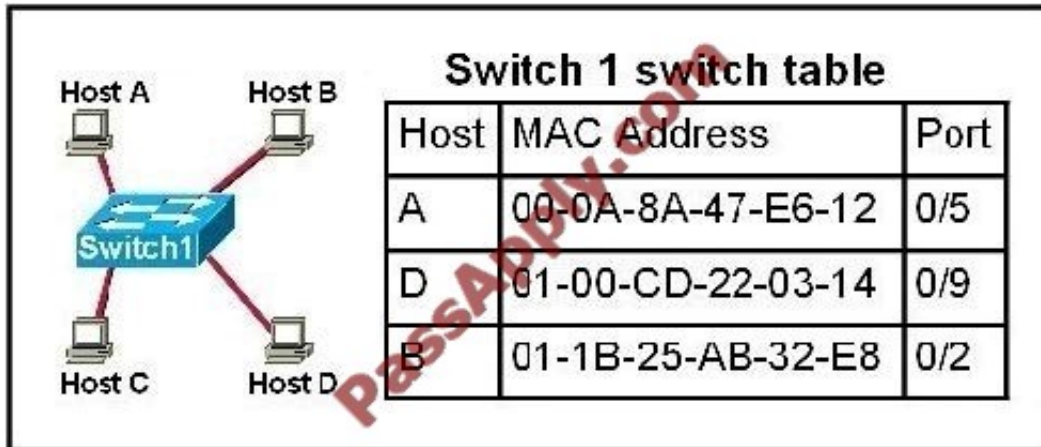
- A. broadcast domains
- B. repeater domains
- C. Ethernet collisions
- D. signal amplification
- E. Ethernet broadcasts

Correct Answer: C

Modern wired networks use a network switch to eliminate collisions. By connecting each device directly to a port on the switch, either each port on a switch becomes its own collision domain (in the case of half duplex links) or the possibility of collisions is eliminated entirely in the case of full duplex links.

### QUESTION 3

Refer to the topology and switching table shown in the graphic.



Host B sends a frame to Host C. What will the switch do with the frame?

- A. Drop the frame
- B. Send the frame out all ports except port 0/2
- C. Return the frame to Host B
- D. Send an ARP request for Host C
- E. Send an ICMP Host Unreachable message to Host B
- F. Record the destination MAC address in the switching table and send the frame directly to Host C

Correct Answer: B

### Explanation/Reference:

An Ethernet switch appears to use the same logic as a transparent bridge. However, the internal logic of the switch is optimized for performing the basic function of choosing when to forward and when to filter a frame. Just as with a transparent bridge, the basic logic of a LAN switch is as follows:

**Step 1** A frame is received.

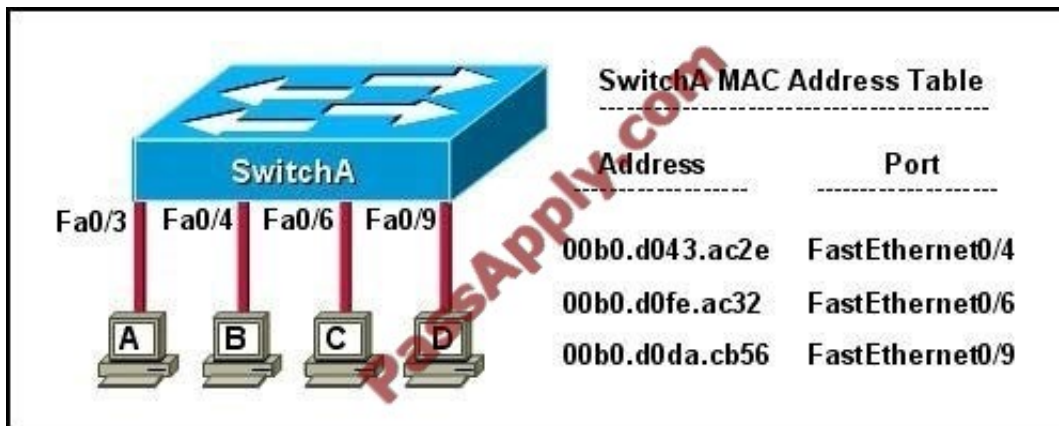
**Step 2** If the destination is a broadcast or multicast, forward on all ports.

**Step 3** If the destination is a unicast and the address is not in the address table, forward on all ports.

**Step 4** If the destination is a unicast and the address is in the address table, forward the frame out the associated port, unless the MAC address is associated with the incoming port.

**QUESTION 4**

Refer to the exhibit.



The exhibit is showing the topology and the MAC address table. Host A sends a data frame to host D. What will the switch do when it receives the frame from host A?

- A. The switch will add the source address and port to the MAC address table and forward the frame to host D.
- B. The switch will discard the frame and send an error message back to host A.
- C. The switch will flood the frame out of all ports except for port Fa0/3.
- D. The switch will add the destination address of the frame to the MAC address table and forward the frame to host D.

Correct Answer: A

When switch receives the data frame from the host not having the MAC address already on the MAC table, it will add the MAC address to source port on MAC address table and sends the data frame.

**QUESTION 5**

A network administrator is troubleshooting the OSPF configuration of routers R1 and R2. The routers cannot establish an adjacency relationship on their common Ethernet link.



```
R1: Ethernet0 is up, line protocol is up
     Internet address 192.168.1.2/24, Area 0
     Process ID 1, Router ID 192.168.31.33, Network Type BROADCAST, Cost: 10
     Transmit Delay is 1 sec, State DR, Priority 1
     Designated Router (ID) 192.168.31.33, Interface address 192.168.1.2
     No backup designated router on this network
     Timer intervals configured, Hello 5, Dead 20, Wait 20, Retransmit 5

R2: Ethernet0 is up, line protocol is up
     Internet address 192.168.1.1/24, Area 0
     Process ID 2, Router ID 192.168.31.11, Network Type BROADCAST, Cost: 10
     Transmit Delay is 1 sec, State DR, Priority 1
     Designated Router (ID) 192.168.31.11, Interface address 192.168.1.1
     No backup designated router on this network
     Timer intervals configured, Hello 10, Dead 40, Wait 40, Retransmit 5
```

The graphic shows the output of the show ip ospf interface e0 command for routers R1 and R2. Based on the information in the graphic, what is the cause of this problem?

- A. The OSPF area is not configured properly.
- B. The priority on R1 should be set higher.
- C. The cost on R1 should be set higher.
- D. The hello and dead timers are not configured properly.
- E. A backup designated router needs to be added to the network.
- F. The OSPF process ID numbers must match.

Correct Answer: D

In OSPF, the hello and dead intervals must match and here we can see the hello interval is set to 5 on R1 and 10 on R2. The dead interval is also set to 20 on R1 but it is 40 on R2.

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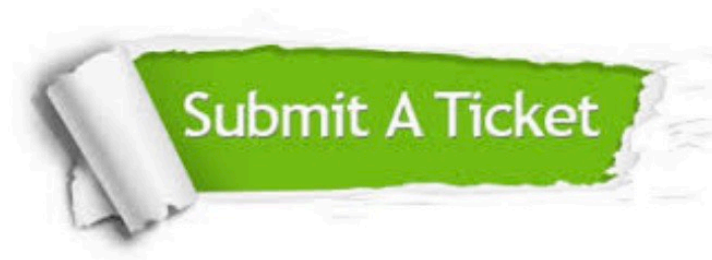
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