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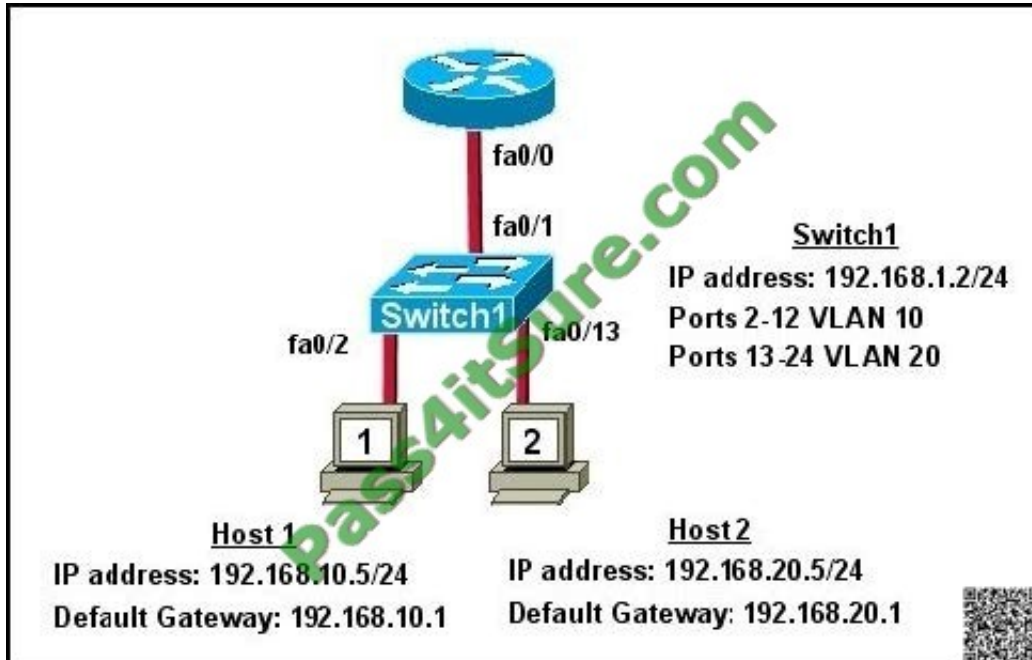
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**QUESTION 1**

Refer to the exhibit.



What commands must be configured on the 2950 switch and the router to allow communication between host 1 and host 2? (Choose two.)

- A. Router(config)# interface fastethernet 0/0 Router(config-if)# ip address 192.168.1.1 255.255.255.0 Router(config-if)# no shut down
- B. Router(config)# interface fastethernet 0/0 Router(config-if)# no shut down Router(config)# interface fastethernet 0/0.1 Router(config-subif)# encapsulation dot1q 10 Router(config-subif)# ip address 192.168.10.1 255.255.255.0 Router(config)# interface fastethernet 0/0.2 Router(config-subif)# encapsulation dot1q 20 Router(config-subif)# ip address 192.168.20.1 255.255.255.0
- C. Router(config)# router eigrp 100 Router(config-router)# network 192.168.10.0 Router(config-router)# network 192.168.20.0
- D. Switch1(config)# vlan database Switch1(config-vlan)# vtp domain XYZ Switch1(config-vlan)# vtp server
- E. Switch1(config)# interface fastethernet 0/1 Switch1(config-if)# switchport mode trunk
- F. Switch1(config)# interface vlan 1 Switch1(config-if)# ip default-gateway 192.168.1.1

Correct Answer: BE

The router will need to use subinterfaces, where each subinterface is assigned a VLAN and IP address for each VLAN. On the switch, the connection to the router need to be configured as a trunk using the switchport mode trunk command and it will need a default gateway for VLAN 1.

QUESTION 2



When you are troubleshooting an ACL issue on a router, which command would you use to verify which interfaces are affected by the ACL?

- A. show ip access-lists
- B. show access-lists
- C. show interface
- D. show ip interface
- E. list ip interface

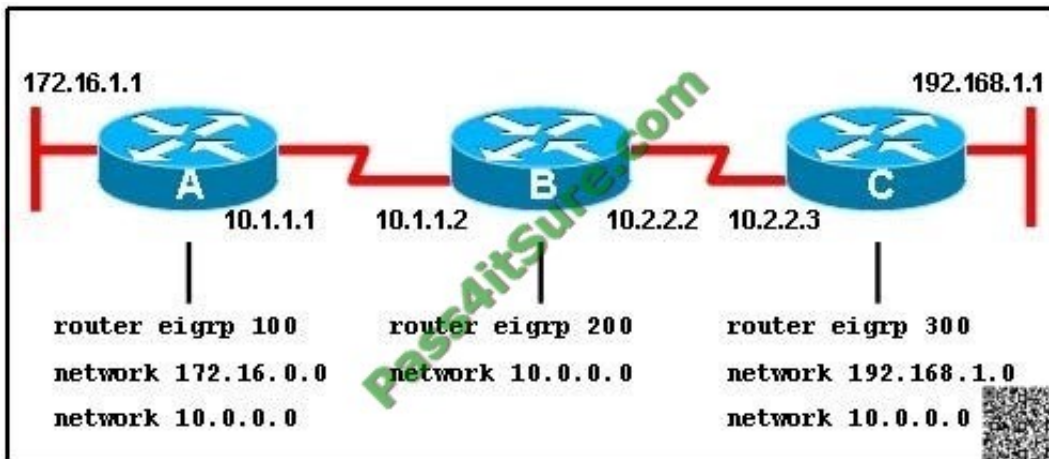
Correct Answer: D

Incorrect answer:

show ip access-lists does not show interfaces affected by an ACL.

QUESTION 3

Refer to the exhibit.



When running EIGRP, what is required for RouterA to exchange routing updates with RouterC?

- A. AS numbers must be changed to match on all the routers
- B. Loopback interfaces must be configured so a DR is elected
- C. The no auto-summary command is needed on Router A and Router C
- D. Router B needs to have two network statements, one for each connected network

Correct Answer: A

This question is to examine the understanding of the interaction between EIGRP routers.

The following information must be matched so as to create neighborhood.



EIGRP routers to establish, must match the following information:

1.
AS Number;
 2.
K value.
-

QUESTION 4

How does using the service password-encryption command on a router provide additional security?

- A. by encrypting all passwords passing through the router
- B. by encrypting passwords in the plain text configuration file
- C. by requiring entry of encrypted passwords for access to the device
- D. by configuring an MD5 encrypted key to be used by routing protocols to validate routing exchanges
- E. by automatically suggesting encrypted passwords for use in configuring the router

Correct Answer: B

By using this command, all the (current and future) passwords are encrypted. This command is primarily useful for keeping unauthorized individuals from viewing your password in your configuration file

QUESTION 5

Which protocol advertises a virtual IP address to facilitate transparent failover of a Cisco routing device?

- A. FHRP
- B. DHCP
- C. RSMLT
- D. ESRP

Correct Answer: A

QUESTION 6

DRAG DROP

Drag the Cisco default administrative distance to the appropriate routing protocol or route. (Not all options are used.)

Select and Place:



0	RIP
1	OSPF
20	static route referencing IP address of next hop
90	internal EIGRP route
100	directly connected network
110	
120	
130	

Correct Answer:

	120
	110
20	1
	90
100	0
130	

QUESTION 7

Refer to the exhibit.



```
Switch-1# show mac address-table
Dynamic Addresses Count:
Secure Addresses (User-defined) Count: 0
Static Addresses (User-defined) Count: 0
System Self Addresses Count: 41
Total Mac addresses: 50
Non-static Address Table:
Destination Address Address Type VLAN Destination Port
-----
0010.0de0.e289 Dynamic 1 FastEthernet0/1
0010.7b00.1540 Dynamic 2 FastEthernet0/3
0010.7b00.1545 Dynamic 2 FastEthernet0
```

Switch-1 needs to send data to a host with a MAC address of 00b0.d056.efa4. What will Switch-1 do with this data?

- A. Switch-1 will drop the data because it does not have an entry for that MAC address.
- B. Switch-1 will flood the data out all of its ports except the port from which the data originated.
- C. Switch-1 will send an ARP request out all its ports except the port from which the data originated.
- D. Switch-1 will forward the data to its default gateway.

Correct Answer: B

This question tests the operating principles of the Layer 2 switch. Check the MAC address table of Switch1 and find that the MAC address of the host does not exist in the table. Switch1 will flood the data out all of its ports except the port from

which the data originated to determine which port the host is located in.

Switches work as follows:

Switches learn the MAC addresses of PCs or workstations that are connected to their switch ports by examining the source address of frames that are received on that port.

Machines may have been removed from a port, turned off, or moved to another port on the same switch or a different switch.

This could cause confusion in frame forwarding.

The MAC address entry is automatically discarded or aged out after 300 seconds

If there is not MAC address of destination host in MAC table, switch sends broadcast to all ports except the source to find out the destination host.

In output there is no MAC address of give host so switch floods to all ports except the source port.

QUESTION 8



In which circumstance are multiple copies of the same unicast frame likely to be transmitted in a switched LAN?

- A. during high traffic periods
- B. after broken links are re-established
- C. when upper-layer protocols require high reliability
- D. in an improperly implemented redundant topology
- E. when a dual ring topology is in use

Correct Answer: D

If we connect two switches via 2 or more links and do not enable STP on these switches then a loop (which creates multiple copies of the same unicast frame) will occur. It is an example of an improperly implemented redundant topology.

QUESTION 9

A network interface port has collision detection and carrier sensing enabled on a shared twisted pair network. From this statement, what is known about the network interface port?

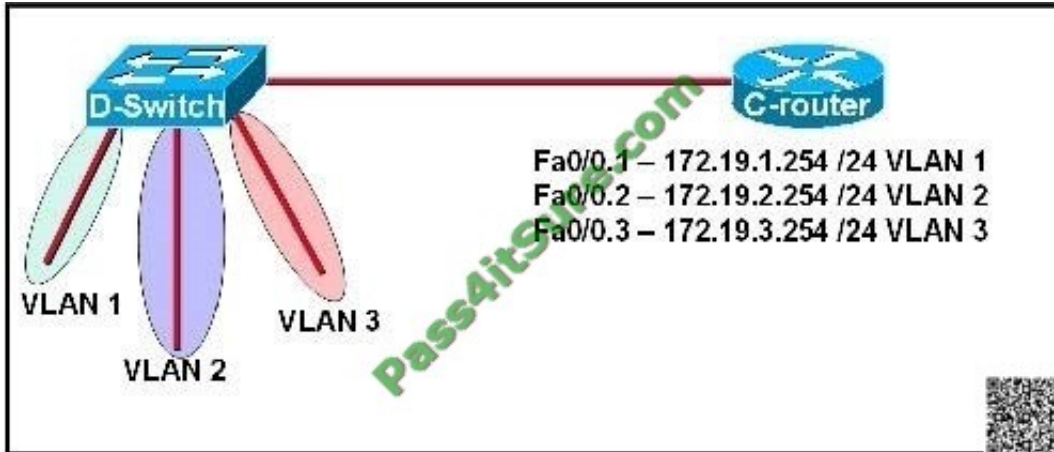
- A. This is a 10 Mb/s switch port.
- B. This is a 100 Mb/s switch port.
- C. This is an Ethernet port operating at half duplex.
- D. This is an Ethernet port operating at full duplex.
- E. This is a port on a network interface card in a PC.

Correct Answer: C

Modern Ethernet networks built with switches and full-duplex connections no longer utilize CSMA/CD. CSMA/CD is only used in obsolete shared media Ethernet (which uses repeater or hub).

QUESTION 10

Refer to the exhibit.



C-router is to be used as a "router-on-a-stick" to route between the VLANs. All the interfaces have been properly configured and IP routing is operational. The hosts in the VLANs have been configured with the appropriate default gateway. What is true about this configuration?

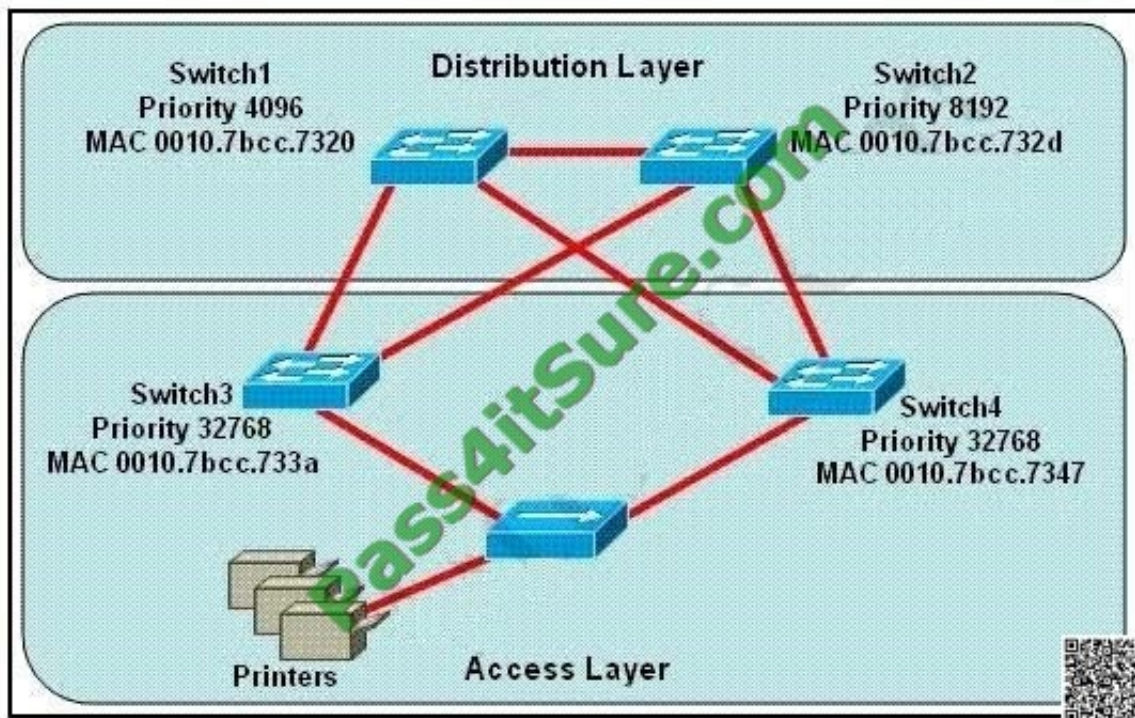
- A. These commands need to be added to the configuration: C-router(config)# router eigrp 123 C-router(config-router)# network 172.19.0.0
- B. These commands need to be added to the configuration: C-router(config)# router ospf 1 C-router(config-router)# network 172.19.0.0 0.0.3.255 area 0
- C. These commands need to be added to the configuration: C-router(config)# router rip C-router(config-router)# network 172.19.0.0
- D. No further routing configuration is required.

Correct Answer: D

Since all the same router (C-router) is the default gateway for all three VLANs, all traffic destined to a different VLA will be sent to the C-router. The C-router will have knowledge of all three networks since they will appear as directly connected in the routing table. Since the C-router already knows how to get to all three networks, no routing protocols need to be configured.

QUESTION 11

Refer to the exhibit.



Which switch provides the spanning-tree designated port role for the network segment that services the printers?

- A. Switch1
- B. Switch2
- C. Switch3
- D. Switch4

Correct Answer: C

Printers are connected by hubs. Decide the switch that provides the spanning-tree designated port role between Switch3 and Switch4. They have the same priority 32768. Compare their MAC addresses. Switch3 with a smaller MAC address will provide a designated port for printers.

QUESTION 12

What are the three things that the Netflow uses to consider the traffic to be in a same flow? (Choose three)

- A. IP address
- B. Interface name
- C. Port numbers
- D. L3 protocol type
- E. MAC address

Correct Answer: ACD



What is an IP Flow?

Each packet that is forwarded within a router or switch is examined for a set of IP packet attributes. These attributes are the IP packet identity or fingerprint of the packet and determine if the packet is unique or similar to other packets.

Traditionally, an IP Flow is based on a set of 5 and up to 7 IP packet attributes.

IP Packet attributes used by NetFlow:

+

IP source address

+

IP destination address

+

Source port

+

Destination port

+

Layer 3 protocol type

+

Class of Service

+

Router or switch interface

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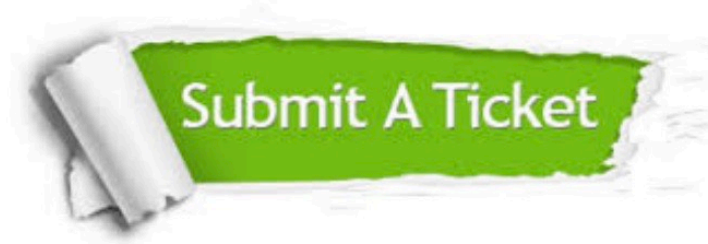
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