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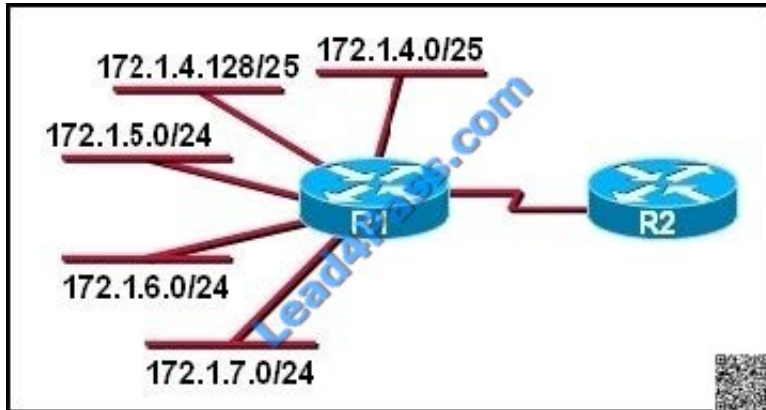
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QUESTION 1

Refer to the exhibit.



What is the most efficient summarization that R1 can use to advertise its networks to R2?

- A. 172.1.0.0/22
- B. 172.1.0.0/21
- C. 172.1.4.0/22
- D. 172.1.4.0/24 172.1.5.0/24 172.1.6.0/24 172.1.7.0/24
- E. 172.1.4.0/25 172.1.4.128/25 172.1.5.0/24 172.1.6.0/24 172.1.7.0/24

Correct Answer: C

The 172.1.4.0/22 subnet encompasses all routes from the IP range 172.1.4.0 ?172.1.7.255.

QUESTION 2

Which of the following are benefits of VLANs? (Choose three.)

- A. They increase the size of collision domains.
- B. They allow logical grouping of users by function.
- C. They can enhance network security.
- D. They increase the size of broadcast domains while decreasing the number of collision domains.
- E. They increase the number of broadcast domains while decreasing the size of the broadcast domains.
- F. They simplify switch administration.

Correct Answer: BCE

When using VLAN the number and size of collision domains remain the same ->.



VLANs allow to group users by function, not by location or geography ->.

VLANs help minimize the incorrect configuration of VLANs so it enhances the security of the network ->.

VLAN increases the size of broadcast domains but does not decrease the number of collision domains ->.

VLANs increase the number of broadcast domains while decreasing the size of the broadcast domains which increase the utilization of the links. It is also a big advantage of VLAN ->.

VLANs are useful but they are more complex and need more administration ->.

QUESTION 3

Which parameter would you tune to affect the selection of a static route as a backup, when a dynamic protocol is also being used?

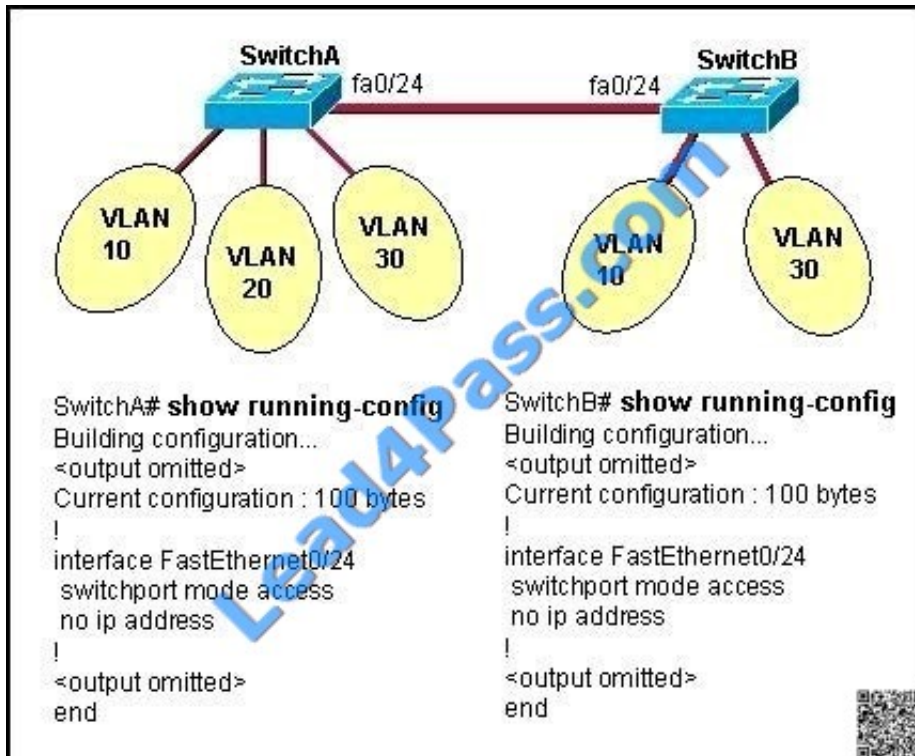
- A. hop count
- B. administrative distance
- C. link bandwidth
- D. link delay
- E. link cost

Correct Answer: B

By default the administrative distance of a static route is 1, meaning it will be preferred over all dynamic routing protocols. If you want to have the dynamic routing protocol used and have the static route be used only as a backup, you need to increase the AD of the static route so that it is higher than the dynamic routing protocol.

QUESTION 4

Refer to the exhibit.



All switch ports are assigned to the correct VLANs, but none of the hosts connected to SwitchA can communicate with hosts in the same VLAN connected to SwitchB. Based on the output shown, what is the most likely problem?

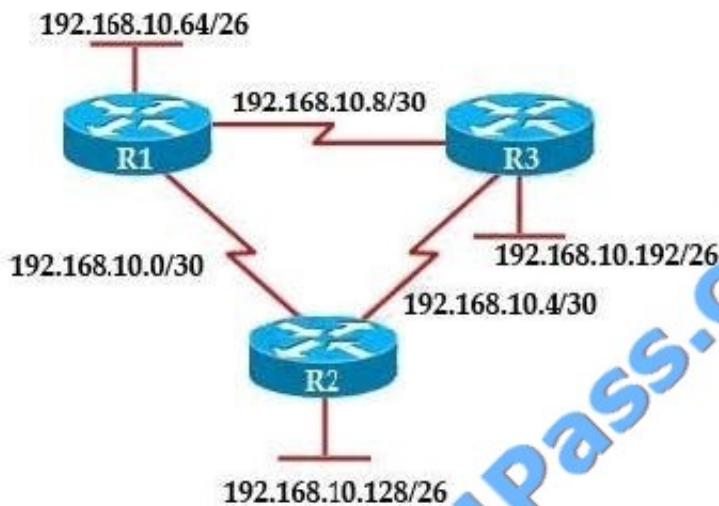
- A. The access link needs to be configured in multiple VLANs.
- B. The link between the switches is configured in the wrong VLAN.
- C. The link between the switches needs to be configured as a trunk.
- D. VTP is not configured to carry VLAN information between the switches.
- E. Switch IP addresses must be configured in order for traffic to be forwarded between the switches.

Correct Answer: C

In order to pass traffic from VLANs on different switches, the connections between the switches must be configured as trunk ports.

QUESTION 5

Refer to the exhibit.



```
R3# show ip route
Gateway of last resort is not set
192.168.10.0/24 is variably subnetted, 6 subnets, 2 masks
D 192.168.10.64/26 [90/2195456] via 192.168.10.9, 00:03:31, Serial0/0
D 192.168.10.0/30 [90/2681856] via 192.168.10.9, 00:03:31, Serial0/0
C 192.168.10.4/30 is directly connected, Serial 0/1
C 192.168.10.8/30 is directly connected, Serial 0/0
C 192.168.10.192/26 is directly connected, FastEthernet0/0
D 192.168.10.128/26 [90/2195456] via 192.168.10.5,00:03:31, Serial0/0
```



The company uses EIGRP as the routing protocol. What path will packets take from a host on the 192.168.10.192/26 network to a host on the LAN attached to router R1?

- A. The path of the packets will be R3 to R2 to R1.
- B. The path of the packets will be R3 to R1 to R2.
- C. The path of the packets will be both R3 to R2 to R1 AND R3 to R1.
- D. The path of the packets will be R3 to R1.

Correct Answer: D

Host on the LAN attached to router R1 belongs to 192.168.10.64/26 subnet. From the output of the routing table of R3 we learn this network can be reach via 192.168.10.9, which is an IP address in 192.168.10.8/30 network (the network between R1 and R3) -> packets destined for 192.168.10.64 will be routed from R3 -> R1 -> LAN on R1.



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