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Interconnecting Cisco Networking Devices Part 2 (ICND2)

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QUESTION 1

What does a router do if it has no EIGRP feasible successor route to a destination network and the successor route to that destination network is in active status?

A. It routes all traffic that is addressed to the destination network to the interface indicated in the routing table.

B. It sends a copy of its neighbor table to all adjacent routers.

C. It sends a multicast query packet to all adjacent neighbors requesting available routing paths to the destination network.

D. It broadcasts Hello packets to all routers in the network to re-establish neighbor adjacencies.

Correct Answer: C

Introduction to EIGRP Feasible Successors A destination entry is moved from the topology table to the routing table when there is a feasible successor. All minimum cost paths to the destination form a set. From this set, the neighbors that have an advertised metric less than the current routing table metric are considered feasible successors. Feasible successors are viewed by a router as neighbors that are downstream with respect to the destination. These neighbors and the associated metrics are placed in the forwarding table. When a neighbor changes the metric it has been advertising or a topology change occurs in the network, the set of feasible successors may have to be re-evaluated. However, this is not categorized as a route recomputation. Route States A topology table entry for a destination can have one of two states. A route is considered in the Passive state when a router is not performing a route recomputation. The route is in Active state when a router is undergoing a route recomputation. If there are always feasible successors, a route never has to go into Active state and avoids a route recomputation. When there are no feasible successors, a route goes into Active state and a route recomputation occurs. A route recomputation commences with a router sending a query packet to all neighbors. Neighboring routers can either reply if they have feasible successors for the destination or optionally return a query indicating that they are performing a route recomputation. While in Active state, a router cannot change the next-hop neighbor it is using to forward packets. Once all replies are received for a given query, the destination can transition to Passive state and a new successor can be selected. When a link to a neighbor that is the only feasible successor goes down, all routes through that neighbor commence a route recomputation and enter the Active state.

Reference: http://www.cisco.com/en/US/tech/tk365/technologies_tech_note09186a0080093f07.shtml

QUESTION 2

Which role is used by VLAN 1 by default?

A. to propagate VLAN information between switches

B. to pass management traffic

C. to initialize the STP protocol

D. to pass traffic designated for isolation from other traffic on the switch

Correct Answer: B

QUESTION 3

Refer to the exhibit. What is the cause of the Syslog output messages?

```
*Mar 01, 00:37:57.3737: %SYS-5-CONFIG_I: Configured from console by con-
sole
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to administra-
tively down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
state to down
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 10.10.11.2 (FastEthernet0/1) is
down: interface down
```

A. The EIGRP neighbor on Fa0/1 went down due to a failed link.

B. The EIGRP neighbor connected to Fa0/1 is participating in a different EIGRP process, causing the adjacency to go down.

C. A shut command was executed on interface Fa0/1, causing the EIGRP adjacency to go down.

D. Interface Fa0/1 has become error disabled, causing the EIGRP adjacency to go down.

Correct Answer: C

QUESTION 4

Which HSRP feature do you configure so that the device with the highest priority immediately becomes the active router?

A. standby timers

B. preemption

C. standby authentication

D. holdtime

Correct Answer: B

QUESTION 5

Which statement about using the keepalive command on a tunnel interface is true?

A. It can be configured on either side of the tunnel or on both sides.

B. It can be configured only on the downstream side of the tunnel.

C. If it is configured on both sides of the tunnel, the values must match.

D. It can be configured only on the upstream side of the tunnel.

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/support/docs/ip/generic-routing-encapsulation-gre/118370-technote-

gre-00.html

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