

# 351-001<sup>Q&As</sup>

### CCIE Routing and Switching Written

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#### **QUESTION 1**

Which command do you use to connect a dense-mode domain to a sparse-mode multicast domain?

- A. none, because there is no such command
- B. ip pim spt-threshold infinity
- C. ip pim register dense-mode
- D. ip pim dense-mode proxy-register

Correct Answer: D

For IP PIM multicast, Cisco recommends Sparse-Mode over Dense-Mode. In the midst of our network migration, we have a new network operating in Sparse- Mode with Anycast rendezvous point (RP) but our existing network is still operating in Dense-Mode. To bridge two different modes across both PIM domains, we should use the ip pim dense-mode proxy-register command on the interface leading toward the bordering dense mode region. This configuration will enable the border router to register traffic from the dense mode region (which has no concept of registration) with the RP in the sparse mode domain.

Reference: http://networkerslog.blogspot.com/2010/12/bridging-dense-mode-pim-to-sparse-mode.html

#### **QUESTION 2**

Refer to the exhibit.



Which two route types are advertised by a router with this configuration? (Choose two.)

- A. connected
- B. external
- C. summary
- D. static
- E. redistributed

Correct Answer: AC



#### **QUESTION 3**

Which two statements about the protected ports feature and the private VLAN feature are true? (Choose two.)

A. The protected ports feature is limited to the local switch.

- B. The protected ports feature can isolate traffic between two "protected" ports on different switches.
- C. The private VLAN feature is limited to the local switch.

D. The private VLAN feature prevents interhost communication within a VLAN across one or more switches.

Correct Answer: AD

Protected Ports (PVLAN Edge)

In some network environments, there is a requirement for no traffic to be seen or forwarded between host(s) on the same LAN segment, thereby preventing interhost communications. The PVLAN edge feature provisions this isolation by

creating a firewall-like barrier, thereby blocking any unicast, broadcast, or multicast traffic among the protected ports on the switch. Note that the significance of the protected port feature is limited to the local switch, and there is no provision in

the PVLAN edge feature to isolate traffic between two "protected" ports located on different switches. For this purpose, the PVLAN feature can be used.

Reference: http://www.ciscopress.com/articles/article.asp?p=1181682andseqNum=2

#### **QUESTION 4**

Which statement about shaped round robin queuing is true?

- A. Queues with higher configured weights are serviced first.
- B. The device waits a period of time, set by the configured weight, before servicing the next queue.
- C. The device services a single queue completely before moving on to the next queue.

D. Shaped mode is available on both the ingress and egress queues.

#### Correct Answer: A

SRR is scheduling service for specifying the rate at which packets are dequeued. With SRR there are two modes, shaped and shared. Shaped mode is only available on the egress queues SRR differs from typical WRR. With WRR queues are serviced based on the weight. Q1 is serviced for weight 1 period of time, Q2 is served for weight 2 period of time, and so forth. The servicing mechanism works by moving from queue to queue and services them for the weighted amount of time. With SRR weights are still followed; however, SRR services Q1, moves to Q2, then Q3 and Q4 in a different way. It does not wait at and service each queue for a weighted amount of time before moving on to the next queue. Instead, SRR makes several rapid passes at the queues; in each pass, each queue might or might not be serviced. For each given pass, the more highly weighted queues are more likely to be serviced than the lower priority queues.

Reference: http://www.cisco.com/c/en/us/products/collateral/switches/catalyst-3560-e- series-switches/prod\_qas0900aecd805bacc7.html



#### **QUESTION 5**

Which feature of Cisco IOS XE Software allows for platform-independent code abstraction?

- A. its security
- B. Common Management Enabling Technology
- C. the Linux-based environment
- D. its modularity

Correct Answer: D

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