



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

CCIE Routing and Switching Written

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### QUESTION 1

Refer to Exhibit.



An IPv6 tunnel is configured between site A and site B. Which feature does the tunnel support?

- A. Single policy
- B. transport mode
- C. site-to-site tunnel mode.
- D. OSPFv2

Correct Answer: C

### QUESTION 2

In which 802.1D port state are the root bridge, the root port, and the designated port(s) elected?

- A. Listening
- B. learning
- C. forwarding
- D. blocking
- E. disabled

Correct Answer: A

STP switch port states:

Blocking ?A port that would cause a switching loop if it were active. No user data is sent or received over a blocking port, but it may go into forwarding mode if the other links in use fail and the spanning tree algorithm determines the port may

transition to the forwarding state. BPDU data is still received in blocking state.

Prevents the use of looped paths.

Listening ?The switch processes BPDUs and awaits possible new information that would cause it to return to the blocking state. It does not populate the MAC address table and it does not forward frames. In this state the root bridge, the root



port, and the designated port(s) are elected. Learning ?While the port does not yet forward frames it does learn source addresses from frames received and adds them to the filtering database (switching database). It populates the MAC

Address table, but does not forward frames. Forwarding ?A port receiving and sending data, normal operation. STP still monitors incoming BPDUs that would indicate it should return to the blocking state to prevent a loop. Disabled ?Not

strictly part of STP, a network administrator can manually disable a port.

Reference: [http://en.wikipedia.org/wiki/Spanning\\_Tree\\_Protocol](http://en.wikipedia.org/wiki/Spanning_Tree_Protocol)

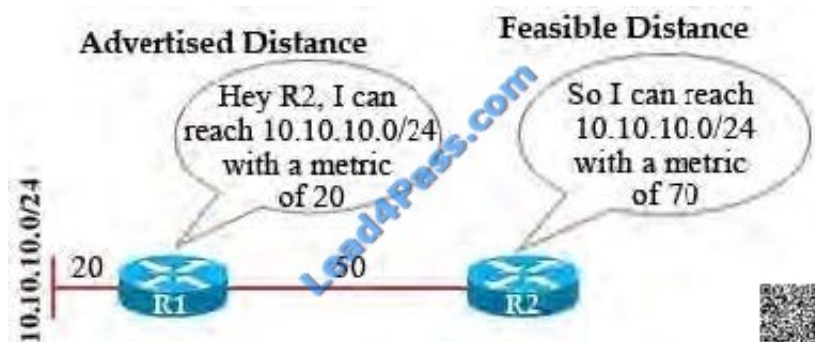
### QUESTION 3

Which statement about the feasibility condition in EIGRP is true?

- A. The prefix is reachable via an EIGRP peer that is in the routing domain of the router.
- B. The EIGRP peer that advertises the prefix to the router has multiple paths to the destination.
- C. The EIGRP peer that advertises the prefix to the router is closer to the destination than the router.
- D. The EIGRP peer that advertises the prefix cannot be used as a next hop to reach the destination.

Correct Answer: C

The advertised metric from an EIGRP neighbor (peer) to the local router is called Advertised Distance (or reported distance) while the metric from the local router to that network is called Feasible Distance. For example, R1 advertises network 10.10.10.0/24 with a metric of 20 to R2. For R2, this is the advertised distance. R2 calculates the feasible distance by adding the metric from the advertised router (R1) to itself. So in this case the feasible distance to network 10.10.10.0/24 is  $20 + 50 = 70$ .



Before a router can be considered a feasible successor, it must pass the feasibility condition rule. In short, the feasibility condition says that if we learn about a prefix from a neighbor, the advertised distance from that neighbor to the destination must be lower than our feasible distance to that same destination. Therefore we see the Advertised Distance always smaller than the Feasible Distance to satisfy the feasibility condition.

### QUESTION 4

DRAG DROP

Drag and drop the BGP attribute on the left to the correct category on the right.



Select and Place:

Drag and drop the BGP attribute on the left to the correct category on the right.

Community	BGP Well-Known Mandatory Attribute
Atomic-Aggregate	Target
Aggregator	BGP Well-Known Discretionary Attribute
Cluster List	Target
Next-Hop	BGP Optional Nontransitive Attribute
MED	Target
	Target

Correct Answer:

Drag and drop the BGP attribute on the left to the correct category on the right.


Community	BGP Well-Known Mandatory Attribute
	Next-Hop
Aggregator	BGP Well-Known Discretionary Attribute
	Atomic-Aggregate
	BGP Optional Nontransitive Attribute
	Cluster List
	MED

### QUESTION 5

Refer to the exhibit.



```
router eigrp foo
!
address-family ipv4 unicast autonomous-system 1
!
af-interface default
hello-interval 10
hold-time 30
exit-af-interface
!
topology base
exit-af-topology
network 10.0.0.0
exit-address-family
```



How can the EIGRP hello and hold time for Gig0/0 be changed to 5 and 15?

- A. No action is required, since Gig0/0 is not listed with a nondefault hello and hold time.
- B. Add the commands ip hello-interval eigrp 1 5 and ip hold-time eigrp 1 15 under interface Gig0/0.
- C. Add the commands hello-interval 5 and hold-time 15 under "af-interface Gig0/0" under the address family.
- D. Add the commands default hello-interval and default hold-time under the af-interface Gig0/0 statement under the address family.

Correct Answer: C

To configure the hello interval for an interface, use the hello-interval command in interface configuration mode To configure the hold time for an interface, use the hold-time command in interface configuration mode. Reference: [http://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs\\_r4-1/routing/command/reference/b\\_routing\\_cr41crs/b\\_routing\\_cr41crs\\_chapter\\_010.html#wp2\\_323069468](http://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs_r4-1/routing/command/reference/b_routing_cr41crs/b_routing_cr41crs_chapter_010.html#wp2_323069468)



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