



# 300-101<sup>Q&As</sup>

Implementing Cisco IP Routing

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#### QUESTION 1

A network engineer is disabling split horizon on a point-to-multipoint interface that is running RIPng. Under which configuration mode can split horizon be disabled?

- A. router(config-riping)#
- B. router(config-rtr)#
- C. router(config-if)#
- D. router(config)#

Correct Answer: B

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#### QUESTION 2

Which two statements about ICMP unreachable messages are true?(Choose two)

- A. They are sent when a route to the destination is missing from the routing table
- B. They can be enable and disable on a device only on a global level
- C. They are sent when a destination address responds to an ARP request
- D. They include the entire packet so that the source can identify the process that generated the message
- E. They include a portion of the original data so that the source can identify the process that generated the message

Correct Answer: AE

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#### QUESTION 3

Your network consists of a large hub-and-spoke Frame Relay network with a CIR of 56 kb/s for each spoke. Which statement about the selection of a dynamic protocol is true?

- A. EIGRP would be appropriate if LMI type ANSI is NOT used.
- B. EIGRP would be appropriate, because the Frame Relay spokes could be segmented into their own areas
- C. EIGRP would be appropriate, because by default, queries are not propagated across the slow speed Frame Relay links.
- D. EIGRP would be appropriate, because you can manage how much bandwidth is consumed over the Frame Relay interface.

Correct Answer: D

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#### QUESTION 4



Drag each OSPF state to the correct definition.

Select and Place:

TSR Watermark Image - Unregistered version - This line is removed when registered

init	No information has been received, but Hello packets can still be sent to the neighbor.
loading	A Hello packet is received, but the ID of the receiving router was not included in the Hello packet.
exstart	Each router see its own Router ID in the neighbor field of the Hello packet; there is a DR / BDR election.
full	The routers and their DR and BDR establish a master-slave relationship.
2-Way	Routers exchange DBD packets that describe the contents of the entire link-state database.
down	Based on the information provided by the DBDs, routers send link-state request packets.
exchange	All the router and network LSAs are exchanged and the router databases are synchronized.

Correct Answer:

TSR Watermark Image - Unregistered version - This line is removed when registered

	down
	init
	2-Way
	exstart
	exchange
	loading
	full

**QUESTION 5**

Refer to the following output:

Router#show ip nhrp detail

10.1.1.2/8 via 10.2.1.2,



Tunnel1 created 00:00:12, expire 01:59:47

Type: dynamic, Flags: authoritative unique nat registered used NBMA address: 10.12.1.2 What does the authoritative flag mean in regards to the NHRP information?

- A. It was obtained directly from the next-hop server.
- B. Data packets are process switches for this mapping entry.
- C. NHRP mapping is for networks that are local to this router.
- D. The mapping entry was created in response to an NHRP registration request.
- E. The NHRP mapping entry cannot be overwritten.

Correct Answer: A

Show NHRP: Examples The following is sample output from the show ip nhrp command: Router# show ip nhrp

```
10.0.0.2 255.255.255.255, tunnel 100 created 0:00:43 expire 1:59:16 Type: dynamic Flags: authoritative
```

```
NBMA address: 10.1111.1111.1111.1111.1111.1111.1111.1111.1111.11 10.0.0.1 255.255.255.255, Tunnel0 created 0:10:03 expire 1:49:56 Type: static Flags: authoritative NBMA address: 10.1.1.2
```

The fields in the sample display are as follows:

The IP address and its network mask in the IP-to-NBMA address cache. The mask is always 255.255.255.255 because Cisco does not support aggregation of NBMA information through NHRP. The interface type and number and how long

ago it was created (hours:minutes:seconds). The time in which the positive and negative authoritative NBMA address will expire (hours:minutes:seconds). This value is based on the ip nhrp holdtime command.

Type of interface:

dynamic -- NBMA address was obtained from the NHRP Request packet.

static -- NBMA address was statically configured.

Flags:

authoritative -- Indicates that the NHRP information was obtained from the Next Hop Server or router that maintains the NBMA-to-IP address mapping for a particular destination. Reference: [http://www.cisco.com/c/en/us/td/docs/ios/12\\_4/](http://www.cisco.com/c/en/us/td/docs/ios/12_4/)

[ip\\_addr/configuration/guide/hadnhrp.html](http://www.cisco.com/c/en/us/td/docs/ios/12_4/ip_addr/configuration/guide/hadnhrp.html)

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