



400-101^{Q&As}

CCIE Routing and Switching Written

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**QUESTION 1**

Refer to the Exhibit.

```

Ethernet II, Src: ca:01:3c:cc:00:00 (ca:01:3c:cc:00:00), Dst:
Internet Protocol Version 4, Src: 10.1.1.132 (10.1.1.132), D
  Header checksum: 0xccf3 [validation disabled]
  Source: 10.1.1.132 (10.1.1.132)
  Destination: 224.0.0.10 (224.0.0.10)
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
Cisco EIGRP
  Version: 2
  Opcode: Hello (5)
  Checksum: 0xcd34 [correct]
  Flags: 0x00000000
  Sequence: 0
  Acknowledge: 0
  Virtual Router ID: 0 (Address-Family)
  Autonomous System: 100
  Authentication MD5
    Type: Authentication (0x0002)
    Length: 40
    Type: MD5 (2)
    Length: 16
    Key ID: 1
    Key Sequence: 0
    Nullpad: 0000000000000000
    Digest: 58a4118e96f5888f6e10bd1b537618a2
  Parameters
    Type: Parameters (0x0001)
    Length: 12
    K1: 1
    K2: 0
    K3: 1
    K4: 1
    K5: 0
    K6: 0
    Hold Time: 15

Ethernet II, Src: ca:02:38:e4:00:00 (ca:02:38:e4:00:00), Dst
Internet Protocol Version 4, Src: 10.1.1.133 (10.1.1.133), D
  Header checksum: 0xccf2 [validation disabled]
  Source: 10.1.1.133 (10.1.1.133)
  Destination: 224.0.0.10 (224.0.0.10)
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
Cisco EIGRP
  Version: 2
  Opcode: Hello (5)
  Checksum: 0xffc7 [correct]
  Flags: 0x00000000
  Sequence: 0
  Acknowledge: 0
  Virtual Router ID: 0 (Address-Family)
  Autonomous System: 100
  Authentication MD5
    Type: Authentication (0x0002)
    Length: 40
    Type: MD5 (2)
    Length: 16
    Key ID: 0
    Key Sequence: 0
    Nullpad: 0000000000000000
    Digest: 9a5868fec6d13f7569504a1381b6afb6
  Parameters
    Type: Parameters (0x0001)
    Length: 12
    K1: 1
    K2: 0
    K3: 1
    K4: 1
    K5: 0
    K6: 0
    Hold Time: 10
```

What is the reason that the two devices failed to form an EIGRP neighbor relationship?

- A. The K-values are valid.
- B. The two devices have different key IDs.
- C. The hold timers are mismatched.
- D. The advanced MD5 digest do not match between the devices.

Correct Answer: B

QUESTION 2

What is the task of an IGMP Snooping Querier?

- A. It facilitates populating the group membership tables on IGMP Snooping-enabled switches



- B. It coordinates the election of a mapping agent
- C. It can limit the number of multicast messages a host receives
- D. It sends PIM-SM messages to all multicast routers

Correct Answer: A

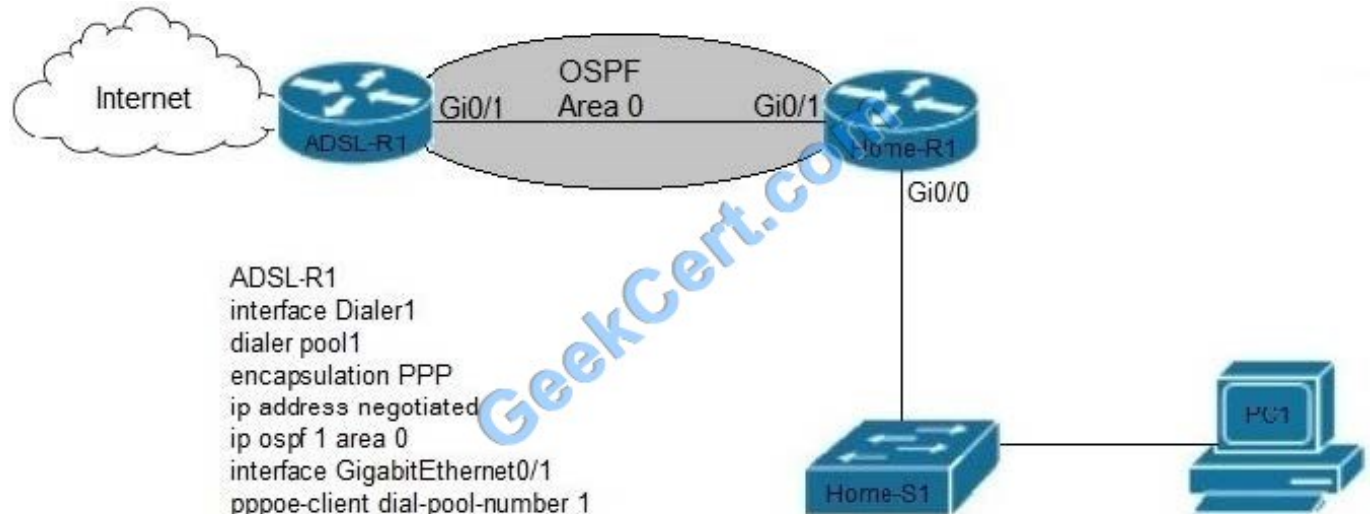
QUESTION 3

Which routing protocol is incompatible with VRF-lite?

- A. IS-IS
- B. EIGRP
- C. BGP
- D. OSPF

Correct Answer: B

QUESTION 4



Refer to the exhibit. The PC is experiencing intermittent connectivity failures to the internet. If ADSL-R1 uses a PPPoE connection, what action can you take to correct the problem?

- A. Configure a system MTU of 1512 on ADSL-R1
- B. Configure OSPF on the connection between PC1 and HomeS1
- C. Replace the dialer interface with a virtual template.
- D. Configure an MTU of 1492 on the dialer interface on ADSL-R1



E. Configure the same OSPF process on HomeR1 and HomeS1

Correct Answer: D

QUESTION 5

Drag and Drop

Select and Place:

edge device	elected by the OTV to provide loop-free multihoming
join interface	connects VLANs to be extended
internal interface	receives local OTV hello messages
overlay interface	provides an uplink to the overlay network
site VLAN	encapsulates layer 2 frames within an IP header
authoritative edge device	connects a site to overlay network

Correct Answer:



	authoritative edge device
	internal interface
	site VLAN
	join interface
	overlay interface
	edge device

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