



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: 58a4118e96f5888f6e10bd1b537638a2
  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 are two general SDN characteristics? (Choose two)

- A. Northbound interfaces are open interfaces used between the control plane and the data plane



- B. OpenFlow is considered one of the first Northbound APIs used by SDN controllers.
- C. The separation of the control plane from the data plane
- D. Southbound interfaces are interfaces used between use control plane and the data plane
- E. OVSDDB is an application database management protocol

Correct Answer: CD

QUESTION 3

Which IGMP filter precedence or hierarchy is applied when different access mode filters exist at the port and SVI level?

- A. If the SVI filter exists, it overrides the port filter.
- B. IGMP filters cannot be configured at the port and the SVI level.
- C. If the port filter exists, it is applied and the SVI filter is ignored.
- D. IGMP filters can be configured at the port and the SVI level, but they must match.

Correct Answer: C

QUESTION 4

When multiple AAA authentication methods are specified in a method list and all are working normally, how is the user authenticated?

- A. The user is authenticated against all provided authentication sources and granted the most restricted set of access privileges.
- B. The user is authenticated against the first listed authentication source only.
- C. The user is authenticated against the provided authentication sources in order until a match is found.
- D. The user is authenticated against all provided authentication sources and granted the least restricted set of access privileges.

Correct Answer: B

QUESTION 5

Which two statements about SNMP are true? (Choose two.)

- A. SNMPv3 uses the SHA encryption algorithm to provide authorization.
- B. SNMPv2c supports only 32-bit counters.



- C. The SNMP manager is responsible for collecting data from the MIB.
- D. SNMPv3 uses the 3DES encryption algorithm to provide data privacy.
- E. The SNMP agent is responsible for collecting data from the MIB.
- F. SNMPv2c can provide authentication as well as encryption.

Correct Answer: DE

QUESTION 6

Which two statements about Cisco HDLC are true? (Choose two.)

- A. Cisco HDLC is the preferred protocol in multi-vendor environments.
- B. Cisco HDLC supports authentication of peering routers on the same HDLC link.
- C. Cisco HDLC is the default encapsulation on Serial and Dialer interfaces.
- D. Cisco HDLC allows routers to negotiate the supported network-layer protocols before sending their packets over an HDLC link.
- E. Cisco HDLC allows bundling of multiple links between the same pair of routes into a faster communication channel.
- F. Cisco routers can carry multiple network-layer protocols simultaneously over the same HDLC link.

Correct Answer: CD

QUESTION 7

Which PIM multicast type requires IGMPv3 and operates without using rendezvous point messages?

- A. BIDIR-PIM
- B. PIM-DM
- C. SSM
- D. PIM-SM

Correct Answer: C

QUESTION 8

Which two statements about STP are true? (Choose two.)

- A. Only one version of STP can be active on a device at one time.
- B. MST supports up to four MST instances, including instance 0.



C. MST configurations are propagated throughout the VTP domain.

D. To support load-balancing across redundant paths, the VLAN-to-instance mapping must match on all switches in each path.

E. Rapid PVST+ and MST can be active on a device simultaneously.

Correct Answer: AD

QUESTION 9

Drag each Qos application-traffic class on the left to the matching definition on the right.

Select and Place:

Best Effort	A locally-defined traffic class with high preference that is marked with DSCP AF31.
Bulk Data	Drop-insensitive traffic such as email and FTP that is marked with DSCP AF11.
Mission Critical Data	The default class for data traffic without other treatment defined that is marked with COS 0.
Scavenger	Traffic from client-server and interactive applications that is marked with DSCP AF21.
Transactional Data	Traffic marked with DSCP CS1 and provided less-than-Best-Effort services.

Correct Answer:

	Mission Critical Data
	Bulk Data
	Best Effort
	Transactional Data
	Scavenger

QUESTION 10

Which two statements about enhanced object tracking are true? (Choose two.)



- A. It supports stateful switchover with GLBP
- B. It supports stateful switchover with HSRP
- C. It can track over 200 objects at once
- D. With HSRP, it can track only the line-protocol state
- E. Tracking objects are identified with unique numbers

Correct Answer: CE

QUESTION 11

Which mechanism does GET VPN use to preserve ip header information?

- A. GRE
- B. MPLS
- C. IPSec transport mode
- D. IPSec tunnel mode

Correct Answer: D

QUESTION 12

Which two statements about native VLANs are true? (Choose two)

- A. They require VTPv3
- B. They are used to forward tagged traffic only
- C. They are configured under the trunk interface
- D. They are configured in VLAN database mode
- E. They are used to forward both tagged and untagged traffic
- F. They are used to forward untagged traffic only

Correct Answer: CF

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