

350-029 CCIE

Cisco CCIE SP Written Exam

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Exam Number/Code: 350-029

Exam Name: CCIE SP Written Exam

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Title : CCIE Service Provider Written Exam

1. With EIGRP DUAL, a feasible successor is considered loop-free if which condition is true?

- A. Its AD is equal to the successor's FD
- B. Its AD is greater than the successor's FD
- C. Its AD is less than the successor's FD
- D. Its AD is equal to the metric of the successor
- E. Its FD is equal to the metric of the successor

Answer: C

2. What bit should be set in the link state PDUs in an IS-IS level-1-2 router to indicate that they are a potential exit point out of the area?

- A. ATT (Attached) bit
- B. IS-Type bits
- C. P (Partition) bit
- D. Down bit
- E. PN (Pseudonode) bit
- F. ABR (Area Border Router) bit

Answer: A

3. In Multicast VPN (MVPN) implementations, which two of the following statements are true regarding the Default MDT Group? (Choose two)

- A. It is used for PIM control traffic.
- B. It is optionally configured for a high bandwidth multicast source to reduce multicast traffic replication to uninterested PE routers.
- C. Within the VRF configuration in the PE router, multiple Default MDT groups are configured so each VRF can support multiple multicast sources.
- D. There is a reduced multicast state in the MPLS core P routers.
- E. When multicast traffic exceeds a certain configured threshold, traffic from the Data MDT is switched to the Default MDT to conserve bandwidth.

Answer: AD

4. BGP Community can be set in IOS using which configuration?

- A. The neighbor {ip-address} prefix-list command within the BGP routing process
- B. The neighbor {ip-address} update-source command within the BGP routing process
- C. The network command within the BGP routing process
- D. The set command within a route-map
- E. The send-community command within a route-map

Answer: D

5. Which two statements regarding the IS-IS DIS election process are true? (Choose Two.)

- A. A priority of 0 will prevent a router from becoming a DIS.
- B. If the DIS becomes unavailable the backup DIS is promoted to DIS.
- C. Adding a router with a higher priority than the current DIS will result in the new router becoming DIS.
- D. Separate L1 and L2 election processes are held on a broadcast network.
- E. L1 routers on a broadcast network only establish adjacencies with the DIS.
- F. If there is a tie based on priority, the router whose attached interface has the lowest MAC address becomes the DIS.

Answer: CD

6. The show ip ospf database external command displays information about which OSPF LSA type?

- A. LSA type 1
- B. LSA type 2
- C. LSA type 3
- D. LSA type 5
- E. LSA type 7
- F. LSA type 9

Answer: D

7. Which two are characteristics of an IPv6 multicast address? (Choose two)

- A. First (most significant) octet is FF in hex
- B. Starts with a prefix of FE80 to FEBF in hex
- C. Starts with a prefix of FEC0 to FEFF in hex
- D. Second octet contains a 4-bit multicast scope field
- E. Last 64 bit contains the modified MAC address of the Ethernet interface
- F. Is allocated from the unicast address space

Answer: AD

8. When configuring Multicast VPN (MVPN) over an MPLS core, both the Default and Data MDT is configured under which configuration mode?

- A. router(config)#
- B. router(config-if)#
- C. router(config-vrf)#

- D. router(config-router)#
- E. router(config-router-af)#

Answer: C

9. What is used to provide read access to QoS configuration and statistics information on Cisco platforms that support Modular QoS CLI (MQC)?

- A. Cisco NBAR Discovery
- B. Cisco AutoQoS
- C. Cisco Class-Based QoS MIB
- D. Cisco SDM QoS Wizard
- E. CDP

Answer: C

10. Having the above BGP peerings, which one of the following configurations for rtrB will advertise all routes from rtrA to rtrD but not to rtrC, but advertise the routes from rtrD to rtrC?

- A. router bgp 2
neighbor 1.1.1.1 remote-as 1
neighbor 1.1.1.1 route-map rtrA in
!
route-map rtrA permit 10
set community no-advertise
!
B. router bgp 2
neighbor 1.1.1.1 remote-as 1
neighbor 1.1.1.1 route-map rtrA in
!
route-map rtrA permit 10
set community no-export
!
C. router bgp 2
neighbor 1.1.1.1 remote-as 1
neighbor 1.1.1.1 route-map rtrA in
neighbor 3.3.3.3 remote-as 3
neighbor 3.3.3.3 route-map rtrC out
!
route-map rtrA permit 10
set community 5
!
route-map rtrC deny 10
match community 5
!
D. router bgp 2
neighbor 1.1.1.1 remote-as 1
neighbor 1.1.1.1 route-map rtrA in
neighbor 3.3.3.3 remote-as 3
neighbor 3.3.3.3 route-map rtrC out
!
route-map rtrA permit 10
set community 5
!
route-map rtrC deny 10
match community 5
!

```
route-map rtrC permit 20
```

```
!
```

Answer: BD

11. With the DSCP value of "101110", what does the "11" in bits 1 and 2 indicate?

- A. AF Class
- B. Drop Probability
- C. CS (Class Selector Value)
- D. PHB (Per-Hop Behavior)
- E. IP Precedence
- F. Queue Depth

Answer: B

12. Which BGP Community option is used to prevent the advertisement of the BGP prefix to any other BGP peer?

- A. additive
- B. none
- C. no-export
- D. no-advertise
- E. local-as

Answer: D

13. Which two statements best describe the definition and configuration of Route-distinguisher as defined in RFC 2547 biz - AKA IP-VPN (MPLS-VPN)?

- A. Route-Distinguisher is an 8 byte value used in creating unique VPNv4 address.
- B. Route-Distinguisher is an 8 byte BGP attribute value used in influencing BGP best path algorithm.
- C. Correct configuration to define Route-Distinguisher is:

```
ip vrf blue
```

```
rd 1:1
```

- D. Correct configuration to define Route-Distinguisher is:

```
ip vrf blue
```

```
route-distinguisher 1:1
```

Answer: AC

14. Which of the following statements is correct regarding PIM Sparse Mode operations?

- A. It does not support all underlying unicast routing protocols like BGP.
- B. It supports shared trees only assuming all hosts want the multicast traffic.
- C. Receivers are "registered" with RP by their first-hop router.
- D. Receivers are "joined" to the Shared Tree (rooted at the RP) by their local Designated Router (DR).
- E. From the RP, traffic flows down a Source Tree to each receiver.

Answer: D

15. router bgp 1

```
neighbor 1.1.1.1 remote-as 2
```

The above bgp configuration has what effect on the configured router?

- A. Allows incoming TCP connections destined to port 179
- B. Allows incoming TCP connections sourced from port 179
- C. Allows incoming TCP connections from 1.1.1.1 and destined to, or sourced from port 179
- D. Allows incoming TCP connections from 1.1.1.1 that are destined to port 179
- E. Allows incoming TCP connections from 1.1.1.1 that are sourced from port 179

Answer: D

16. BGP best route selection process is based on what?

- A. lowest cost

- B. highest bandwidth
- C. lowest hop-count
- D. path attributes
- E. lowest delay
- F. lowest delay and highest bandwidth

Answer: D

17. Which MQC-based output queuing method is designed to support multiple traffic classes including VoIP traffic, mission-critical traffic, bulk traffic, interactive traffic and default class traffic?

- A. CBWFQ
- B. CB-WRED
- C. LLQ
- D. Custom Queueing
- E. WRR Queueing

Answer: C

18. Refer to the exhibit. Your customer has enabled IPv6 on routers R1 and R2 and they can no longer reach R3. Which two steps should be taken to restore reachability to R3? (Choose Two.)

- A. Enable wide metrics.
- B. Enable OSPFv3 to support IPv4 and IPv6 simultaneously.
- C. Configure static routes to all unreachable networks and redistribute to IS-IS.
- D. Transition to IS-IS Multiple Topology Mode on R1 and R2.
- E. Transition to IS-IS Multiple Topology Mode on R3.
- F. Create an IPv6 tunnel from R2 to R3.

Answer: AD

19. The ASBR-summary LSA is:

- A. Generated by the ASBR and describes reachability to itself
- B. Generated by the ASBR and describes reachability to the ABR
- C. Generated by the ABR and describes reachability to the ASBR for routers in a different area from the ASBR
- D. Generated by the ABR and describes reachability to the ASBR for routers in the same area with the ASBR

Answer: C

20. RIPv2 differs from RIPv1 in that:

- A. It uses multicast address 224.0.0.10, instead of broadcast.
- B. It uses multicast address 224.0.0.9, instead of broadcast.
- C. It can use either multicast or broadcast addresses, instead of just broadcast.
- D. It sends incremental updates, instead of periodic updates.
- E. It is classless, instead of classful.
- F. It supports authentication, and RIPv1 does not.

Answer: BEF

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