



[Cisco 642-891](#)

Exam Name: Composite Exam

Q & A : 330 Q&As

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1. Refer to the show spanning-tree mst configuration output shown in the exhibit. What should be changed in the configuration of the switch SW_2 in order for it to participate in the same MST region?

- A. Switch SW_2 must be configured with a different VLAN range.
- B. Switch SW_2 must be configured with a different MST name.
- C. Switch SW_2 must be configured with the revision number of 1.
- D. Switch SW_2 must be configured with an instance number of 2.

Answer: C

2. Which two table types are CEF components?(Choose two.)

- A. forwarding information base
- B. adjacency tables
- C. neighbor tables
- D. caching tables
- E. route tables

Answer: AB

3. Which two methods advertise internal networks to external ISPs via BGP? (Choose two.)

- A. using aggregate routes
- B. disabling synchronization
- C. forcing the next-hop address
- D. defining routes via the network statement

Answer: AD

4. Which three IP addresses are valid multicast addresses? (Choose three.)

- A. 169.254.23.59
- B. 223.254.255.254
- C. 225.1.1.1
- D. 227.43.34.2
- E. 238.3.3.3
- F. 249.1.2.3

Answer: CDE

5. On a multilayer Catalyst switch, which interface command is used to convert a Layer 3 interface to a Layer 2 interface?

- A. switchport
- B. no switchport
- C. switchport mode access
- D. switchport access vlan vlan-id

Answer: A

6. Which VTP information does a Catalyst switch advertise on its trunk ports when using VTP? (Choose two.)

- A. VTP mode
- B. STP root status
- C. negotiation status
- D. management domain
- E. configuration revision number

Answer: DE

7. A medium-sized network with a redundant topology that uses core and access switches is experiencing intermittent end-station accessibility. The root bridge is on one of the core switches. It is determined that the problem occurs during STP convergence and that accessibility issues depend on the STP state of the individual switch port. What is the best way to decrease STP convergence time in this situation?

- A. Enable PortFast on the core switches to accelerate the choice of a new root port.
- B. Enable UplinkFast on the VLAN that is having the most accessibility problems.
- C. Enable UplinkFast on the wiring closet switches at the edge of the network.
- D. Enable PortFast on all IOS based switches that have been configured for bridge priority.

Answer: C

8. Given the above partial configuration, which two statements are true about VLAN traffic? (Choose two.)

- A. VLANs 1-5 will be blocked if fa0/10 goes down.
- B. VLANs 1-5 will use fa0/10 as a backup only.
- C. VLANs 6-10 will use fa0/10 as a backup only.
- D. VLANs 6-10 have a port priority of 128 on fa0/10.
- E. VLANs 1-10 are configured to load share between fa0/10 and fa0/12.

Answer: CE

9. When IP multicast is enabled via PIM, which mode uses the flood and prune method?

- A. PIM sparse-dense
- B. Bidir-PIM
- C. PIM-RP
- D. PIM-DM

E. PIM-SM

Answer: D

10. Look at the picture.

The information of the question

1. Seed metric for EIGRP must have the following characteristics:

Bandwidth=512 Kbps

2. Delay=100

3. Reliability=255

4. Load=1

5. MTU=1500

Seed metric for IS-IS must be set to 50.

Only redistribute Level-1 IS-IS routes into EIGRP.

Redistribute EIGRP routes into IS-IS as Level-1 routes.

Correct Answers:

```
Blockade# conf t
```

```
Blockade(config)# router isis
```

```
Blockade(config-router)# redistribute eigrp 100 level-1 metric 50
```

```
Blockade(config)# router eigrp 100
```

```
Blockade(config-router)# redistribute isis level-1 metric 512 10 255 1 1500
```

```
Blockade(config-router)# redistribute connected
```

```
Blockade# copy run start
```

15. Refer to the exhibit. What is the effect of the distribute-list command in the R1 configuration?

- A. R1 will filter only the 172.24.1.0/24 route from the R2 RIP updates.
- B. R1 will permit only the 10.0.0.0/24 route in the R2 RIP updates.
- C. R1 will filter the 10.1.0.0/24 and the 172.24.1.0/24 routes from the R2 RIP updates.
- D. R1 will not filter any routes because there is no exact prefix match.

Answer: C

11. Why should iBGP sessions be fully meshed within a Transit AS?

- A. BGP requires redundant TCP sessions between iBGP peers.
- B. A full mesh allows for optimal routing within the Transit AS.
- C. Routes learned via iBGP are never propagated to other eBGP peers.
- D. Routes learned via iBGP are never propagated to other iBGP peers.
- E. Routes learned via eBGP are never propagated to other iBGP peers.

Answer: D

12. Refer to the exhibit. Which two statements are true? (Choose two.)

- A. RTB will receive only the summary address of 2.0.0.0/8.
- B. RTB will receive two routes, the manual summary address of 2.1.0.0/16 and the automatic, summarized classful address of 2.0.0.0/8.
- C. The summary route will be sourced from the RTA s0/0 interface in the RTA routing table.
- D. The summary route will be sourced from the RTA Null0 interface in the RTA routing table.
- E. The summary route will be assigned the administrative distance of 90 in the RTA routing table.
- F. The summary route will be assigned the administrative distance of 5 in the RTB routing table.

Answer: AD

13. When the BGP path selection process is being performed on a Cisco router, which BGP attribute is used first when determining the best path?

- A. local preference
- B. MED
- C. weight
- D. origin
- E. next-hop
- F. AS-path

Answer: C

14. Given the following configuration on a switch interface, what happens when a host with the MAC address of 0003.0003.0003 is directly connected to the switch port? switchport mode access switchport port-security switchport port-security maximum 2 switchport port-security mac-address 0002.0002.0002 switchport port-security violation shutdown

- A. The port will shut down.
- B. The host will be allowed to connect.

- C. The host will be refused access.
- D. The host can only connect through a hub/switch where 0002.0002.0002 is already connected.

Answer: B

15. Examine the above configuration. What does the route map named test accomplish?

- A. marks all prefixes advertised to the 10.1.1.1 neighbor with a MED of 200
- B. marks all prefixes received from the 10.1.1.1 neighbor with a MED of 200
- C. marks the 10.0.0.0/8 prefix advertised to the 10.1.1.1 neighbor with a MED of 200
- D. marks the 10.0.0.0/8 prefix received from the 10.1.1.1 neighbor with a MED of 200
- E. permits only the 10.0.0.0/8 prefix to be advertised to the 10.1.1.1 neighbor
- F. permits only the 10.0.0.0/8 prefix to be received from the 10.1.1.1 neighbor

Answer: C

16. Refer to the exhibit. An administrator is verifying that a CEF FIB entry exists to destination network 192.16150.0. Given the output generated by the show ip cef and show adjacency detail commands, which three statements are true? (Choose three.)

- A. There is a valid CEF entry for the destination network 192.168.150.0.
- B. The "valid cached adjacency" entry indicates that CEF will put all packets going to such an adjacency to the next best switching mode.
- C. The counters (0 packets, 0 bytes) indicate a problem with the 192.168.199.3 next hop IP address.
- D. There is an adjacency for the 192.168.199.3 next hop IP address.
- E. The number 003071506800 is the MAC address of the 192.168.199.3 next hop IP address.
- F. The number 003071506800 is the MAC address of the source IP address.

Answer: ADE

17. A new workstation has consistently been unable to obtain an IP address from the DHCP server when the workstation boots. Older workstations function normally, and the new workstation obtains an address when manually forced to renew its address. What should be configured on the switch to allow the workstation to obtain an IP address at boot?

- A. UplinkFast on the switch port connected to the server
- B. BackboneFast on the switch port connected to the server
- C. PortFast on the switch port connected to the workstation
- D. trunking on the switch

Answer: C

18. Router E is configured with the EIGRP variance 2 command. What path will Router E take to reach Router A?

- A. only E-D-A
- B. only E-B-A
- C. only E-C-A
- D. both E-B-A and E-C-A
- E. both E-B-A and E-D-A
- F. all available paths.

Answer: D

19. What can be determined about the HSRP relationship from the displayed debug output?

- A. The preempt feature is not enabled on the 172.16.11.111 router.
- B. The nonpreempt feature is enabled on the 172.16.11.112 router.
- C. Router 172.16.11.111 will be the active router because its HSRP priority is preferred over router 172.16.11.112.
- D. Router 172.16.11.112 will be the active router because its HSRP priority is preferred over router 172.16.11.111.
- E. The IP address 172.16.11.111 is the virtual HSRP router IP address.
- F. The IP address 172.16.11.112 is the virtual HSRP router IP address.

Answer: A

20. Refer to the exhibit. What is the effect of the distribute-list command in the R1 configuration?

- A. R1 will filter only the 172.24.1.0/24 route from the R2 RIP updates.
- B. R1 will permit only the 10.0.0.0/24 route in the R2 RIP updates.
- C. R1 will filter the 10.1.0.0/24 and the 172.24.1.0/24 routes from the R2 RIP updates.
- D. R1 will not filter any routes because there is no exact prefix match.

Answer: C

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