

642-901 CCNP

Cisco Building Scalable Cisco Internetworks

642-901: Building Scalable Cisco Internetworks

Practice Exam: 642-901 Exams

Exam Number/Code: 642-901

Exam Name: Building Scalable Cisco Internetworks

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Title : BSCI - Building Scaleable Cisco Internetworks

1. Refer to the exhibit. Which two statements are true about the partial configuration that is provided. (Choose two.)

- A. All the configured neighbors are in autonomous system 100.
- B. The peer group shortens the IBGP configuration.
- C. The peer group shortens the EBGP configuration.
- D. Only the outgoing filters are applied to BGP updates.
- E. Three AS-path filters are applied to each BGP neighbor.

Answer: AB

2. What are two rules for compacting IPv6 addresses? (Choose two.)

- A. The maximum number of times a double colon can replace a 16-bit segment that consists of all zeroes is two.
- B. The leading zeroes in any 16-bit segment do not have to be written.
- C. Every 16-bit segment that consists of all zeroes can be represented with a single colon.
- D. The trailing zeroes in any 16-bit segment do not have to be written.
- E. Any single, continuous string of one or more 16-bit segments that consists of all zeroes can be represented with a double colon.
- F. Two zeroes in the middle of any 16-bit segment do not have to be written.

Answer: BE

3. Into which two types of areas would an area border router (ABR) inject a default route? (Choose two.)

- A. the autonomous system of a different interior gateway protocol (IGP)
- B. area 0
- C. totally stubby
- D. NSSA
- E. stub
- F. the autonomous system of an exterior gateway protocol (EGP)

Answer: CE

4. Which three IP multicast related statements are true? (Choose three.)

- A. Multicast addresses 224.0.1.0 through 238.255.255.255 are called globally scoped addresses. They are used to multicast data between organizations and across the Internet.
- B. The multicast address 224.0.0.1 is a globally scoped address that has been reserved for the Network Time Protocol (NTP) by the IANA.
- C. Multicast addresses 239.0.0.0 through 239.255.255.255 are called limited scope addresses. They are constrained to a local group or organization.
- D. Multicast addresses 224.0.0.5 and 224.0.0.6 are limited scoped addresses that have been reserved for OSPF.
- E. Multicast addresses 224.0.0.0 through 224.0.0.255 are used for network protocols on local LAN segments. Because they are always transmitted with a Time to Live (TTL) of 1, they are never forwarded by a router.

Answer: ACE

5. What are the two reasons for the appearance of 0.0.0.0 as the next hop for a network in the show ip bgp command output? (Choose two.)

- A. The network was originated via redistribution of an interior gateway protocol into BGP.
- B. The network was defined by a static route.
- C. The network was originated via a network or aggregate command.
- D. The network was learned via EBGP.
- E. The network was learned via IBGP.

Answer: AC

6. If a metric is not specified for routes that are redistributed into OSPF, the default metric that is assigned to the routes is 20, except for redistributed BGP routes. What is the metric that is assigned to redistributed BGP routes?

- A. 0
- B. 1
- C. 10
- D. 200

Answer: B

7. Which three IP multicast group concepts are true? (Choose three.)

- A. If a packet is sent to a multicast group address, all members of the multicast group will receive it.
- B. If a packet is sent to a multicast group address, the multicast frame contains the source multicast address.
- C. A router does not have to be a member of a multicast group to receive multicast data.
- D. A router does not have to be a member of a multicast group to send to the group.
- E. A router must be a member of a multicast group to receive multicast data.
- F. A router must be a member of a multicast group to send to the group.

Answer: ADE

8. Refer to the exhibit. Which two statements are correct? (Choose two.)

- A. All six routes will be installed in the routing table.
- B. Two routes will be installed in the routing table.
- C. Four routes will be installed in the routing table.
- D. All the routes were redistributed into BGP from an IGP.
- E. All the routes were originated by BGP with the network command.

Answer: CD

9. Which three restrictions apply to OSPF stub areas? (Choose three.)

- A. No virtual links are allowed.
- B. The area cannot be a backbone area.
- C. Redistribution is not allowed unless the packet is changed to a type 7 packet.
- D. The area has no more than 10 routers.
- E. No autonomous system border routers are allowed.
- F. Interarea routes are suppressed.

Answer: ABE

10. Refer to the exhibit. Which three statements accurately describe the result of applying the exhibited route map? (Choose three.)

- A. The map prohibits the redistribution of all type 2 external OSPF routes with tag 6 set.
- B. The map prohibits the redistribution of all type 2 external OSPF routes.
- C. The map redistributes into EIGRP all routes that match the pfx prefix list and the five metric values 40000, 1000, 255, 1, and 1500.
- D. The map prohibits the redistribution of all external OSPF routes with tag 6 set.
- E. All routes that do not match clauses 10 and 20 of the route map are redistributed with their tags set to 8.
- F. The map permits the redistribution of all type 1 external OSPF routes.

Answer: AEF

11. Which three IP multicast address related statements are true? (Choose three.)

- A. Multicast addresses 224.0.0.0 through 224.0.0.255 are always forwarded because they are transmitted with Time to Live (TTL) greater than 1.
- B. Multicast addresses 224.0.0.5 and 224.0.0.6 are source multicast addresses for OSPF routers.
- C. Multicast addresses 224.0.0.13 and 224.0.0.22 are reserved link-local addresses used by PIMv2 and IGMPv3.
- D. Because they would map to overlapping IP multicast MAC addresses, multicast addresses 224.0.1.1 and 238.1.1.1 could not be used together.
- E. Multicast address 224.0.1.1 has been reserved for the Network Time Protocol (NTP) by the IANA.
- F. The administratively scoped multicast addresses 239.0.0.0 through 239.255.255.255 are similar in purpose to RFC 1918 private unicast addresses.

Answer: CEF

12. Which two multicast protocol statements are true? (Choose two.)

- A. Dense mode multicast requires explicit join messages from their members.
- B. Dense mode multicast uses a push model to flood traffic throughout the network and then prunes the unwanted traffic.
- C. Sparse mode multicast uses a pull model to send multicast traffic to where it is requested.
- D. Sparse mode uses reverse path forwarding (RPF) to prune off redundant flows.
- E. The primary use of sparse mode multicast is for test labs and router performance testing.

Answer: BC

13. If no metric is specified for the routes being redistributed into IS-IS, what metric value is assigned to the routes?

- A. 0
- B. 1
- C. 10
- D. 20

Answer: A

14. Refer to the exhibit. Which statement is true about the 6.6.6.0/24 prefix?

- A. If another path advertises the 6.6.6.0/24 path and has the default local preference, that path is more preferred.
- B. The command neighbor send-community is configured on BGP neighbor 10.10.23.3.

C. The route 10.10.23.3 is not being advertised to other BGP neighbors.

D. Route 6.6.6.0/24 is learned by an IBGP peer.

Answer: B

15. Refer to the exhibit. EIGRP has been configured on all routers in the network. What additional configuration statement should be included on router R4 to advertise a default route to its neighbors?

A. R4(config)# ip default-network 10.0.0.0

B. R4(config)# ip route 0.0.0.0 0.0.0.0 10.1.1.1

C. R4(config)# ip route 10.0.0.0 255.0.0.0 10.1.1.1

D. R4(config-router)# default-information originate

Answer: A

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