

Exam Code: 642-901

Exam Name: BSCI - Building Scaleable Cisco
Internetworks

Vendor: CISCO

Version: DEMO

1: Which command should you issue first to configure EIGRP for IP?

A.ip eigrp routing
B.router eigrp process-id
C.ip eigrp autonomous-system-number
D.router eigrp autonomous-system-number

Correct Answers: D

2: Which two statements about 6to4 tunneling are accurate? (Choose two.)

- A. Prepending a reserved IPv6 code to the hexadecimal representation of 192.168.0.1 facilitates 6to4 tunneling.
- B. Each 6to4 site receives a /48 prefix in a 6to4 tunnel.
- C. 2002::/48 is the address range specifically assigned to 6to4.
- D. Prepending 0x2002 with the IPv4 address creates an IPv6 address that is used in 6to4 tunneling.
- E. 6to4 is a manual tunnel method.

Correct Answers: B D

3: Which statement is true about the implementation of IPv6 in an already existing IPv4 network?

A. IPv6 can be routed using the same routing protocol versions as IPv4

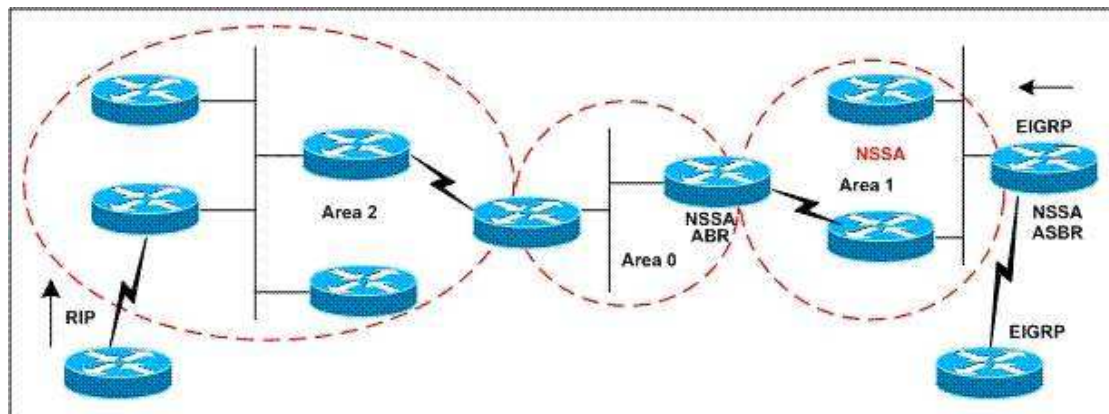
B. A router routing for IPv6 and IPv4 must convert IPv4 packets to IPv6 packets to route them.

C. IPv4 and IPv6 networks can be routed simultaneously.

D. Only OSPF version 3 can be utilized for routing IPv4 and IPv6.

Correct Answers: C

4: Refer to the exhibit. Will redistributed RIP routes from OSPF Area 2 be allowed in Area 1?



A. Because Area 1 is an NSSA, redistributed RIP routes will not be allowed.

B. Redistributed RIP routes will be allowed in Area 1 because they will be changed into type 5 LSAs in Area 0 and passed on into Area 1.

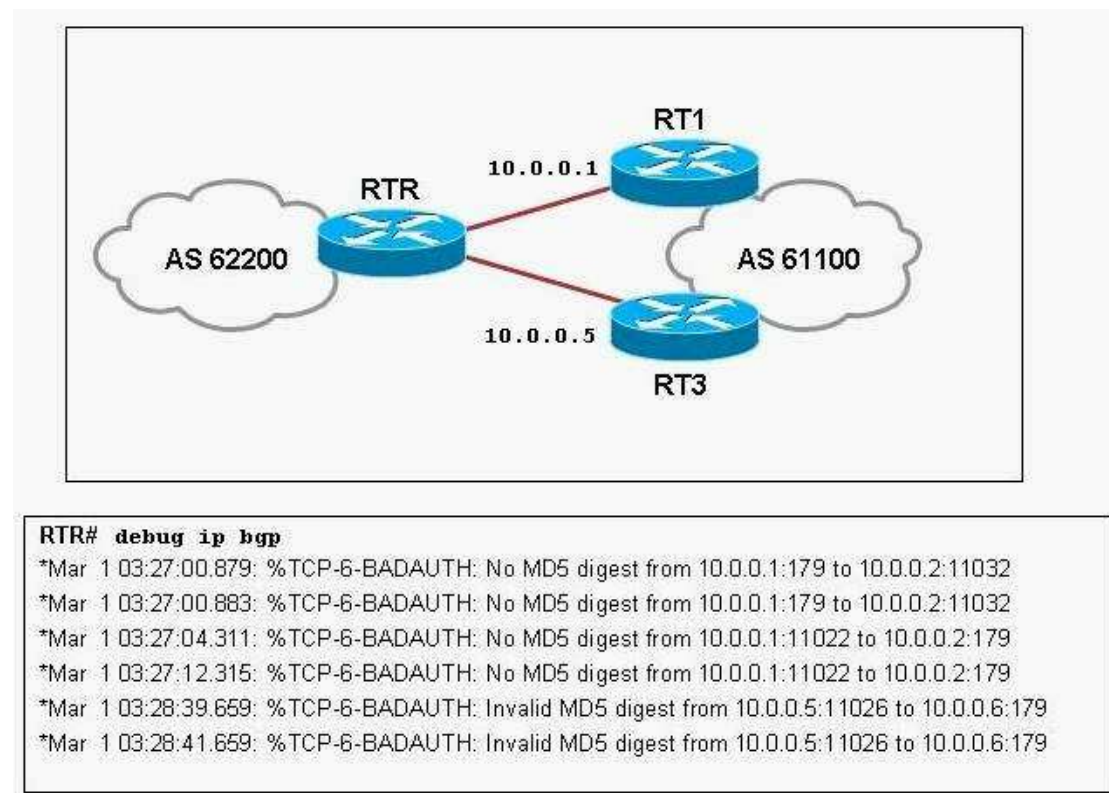
C. Because NSSA will discard type 7 LSAs, redistributed RIP routes will not be allowed in Area 1.

D. Redistributed RIP routes will be allowed in Area 1 because they will be changed into type 7 LSAs in Area 0 and passed on into Area 1.

E. RIP routes will be allowed in Area 1 only if they are first redistributed into EIGRP.

Correct Answers: A

5: Refer to the exhibit. Router RTR is attempting to establish BGP neighbor relationships with routers RT1 and RT3. On the basis of the information that is presented in the exhibit, which two statements are true? (Choose two.)



- A.RTR has a BGP password set but neighbor 10.0.0.1 does not.
- B.RTR has a BGP password set but neighbor 10.0.0.5 does not.
- C.RTR has a BGP password set but neighbor 10.0.0.1 has an incorrect password set.
- D.RTR has a BGP password set but neighbor 10.0.0.5 has an incorrect password set.
- E.Neighbor 10.0.0.1 has a BGP password set but RTR does not.
- F.Neighbor 10.0.0.5 has a BGP password set but RTR does not.

Correct Answers: A D

6: Refer to the exhibit. The DHCP configuration that is shown is configured on a Cisco router. Which statement is true?

```

ip dhcp pool 1
  network 172.16.1.0/24
  domain-name cisco.com
  dns-server 172.16.1.102
  netbios-name-server 172.16.1.103
  default-router 172.16.1.100 172.16.1.101
  lease 30
!
ip dhcp pool 2
  network 172.16.2.0/24
  domain-name cisco.com
  dns-server 172.16.2.102
  netbios-name-server 172.16.2.103
  default-router 172.16.2.100 172.16.2.101
  lease 30

```

- A.The router will distribute IP addresses from pool 1 until its addresses are exhausted. Then the router will begin distributing addresses from pool 2.
- B.The router will choose which pool to use based upon the interface the DHCP request was received on.
- C.The configuration is invalid because the DHCP options are global configuration commands.
- D.The configuration is incomplete until the DHCP pools are bound to the appropriate interface or interfaces.

Correct Answers: B

7: How is the designated querier elected in IGMPv2?

- A.The first router to appear on a subnet is designated.
- B.The host that responds first to the election query is designated.
- C.The router with the lowest IP address on a subnet is designated.
- D.The host with the lowest MAC address on a segment is designated.

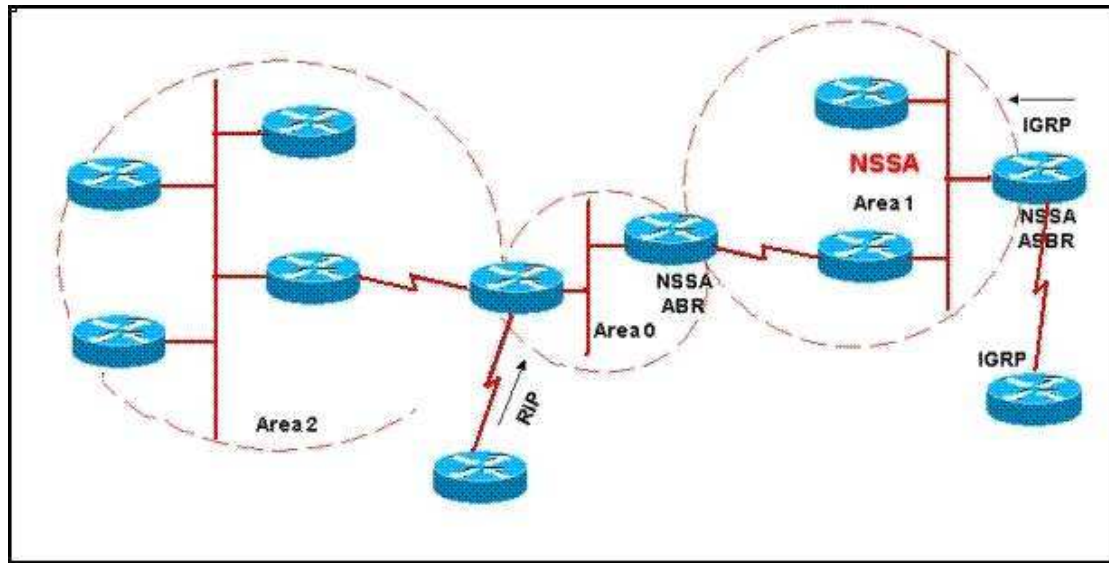
Correct Answers: C

8: A router is running BGP and receives more than one route for a particular prefix. Assume all the routes for this prefix have the same attributes. Which three path features would be reasons be for the router to ignore some of the routes and not consider them as candidates for the best path? (Choose three.)

- A.paths that are marked as synchronized in the show ip bgp output
- B.paths that are marked as not synchronized in the show ip bgp output
- C.paths for which the NEXT_HOP is accessible
- D.paths for which the NEXT_HOP is inaccessible
- E.paths from an external BGP (eBGP) neighbor if the local autonomous system (AS) appears in the AS_PATH
- F.paths from an internal BGP (iBGP) neighbor if the local autonomous system (AS) appears in the AS_PATH

Correct Answers: B D E

9: Refer to the exhibit. OSPF has been configured on all routers in the network and Area 1 has been configured as a NSSA. Which statement is true about the NSSA Area 1?



- A.Redistributed RIP and IGRP routes will appear in Area 1. They will be advertised via type 5 LSAs.
- B.Only redistributed RIP routes will appear in Area 1. They will be advertised via type 7 LSAs.
- C.Only redistributed IGRP routes will appear in Area 1. They will be advertised via type 7 LSAs.
- D.No redistributed routes can appear in Area 1, only summary routes.

Correct Answers: C

10: Refer to the exhibit. Switch Cat2 is receiving IGMP frames only on interface FastEthernet 0/3. Given IGMP snooping, out of which port or ports will switch Cat2 forward multicast traffic?

Cat2# **show vlan**

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4
10	VLAN0010	active	Fa0/5, Fa0/6, Fa0/9, Fa0/8
20	VLAN0020	active	Fa0/9, Fa0/10, Fa0/11, Fa0/12
30	VLAN0030	active	Fa0/13, Fa0/14, Fa0/15, Fa0/16,
40	VLAN0040	active	Fa0/17, Fa0/18, Fa0/19, Fa0/20,
50	VLAN0050	active	Fa0/21, Fa0/22, Fa0/23, Fa0/24
1002	fddi-default		act/unsup
1003	token-ring-default		act/unsup
1004	fddinet-default		act/unsup
1005	trnet-default		act/unsup

- A.all ports
- B.none of the ports
- C.FastEthernet 0/3
- D.FastEthernet 0/1, 0/2, 0/4
- E.FastEthernet 0/1, 0/2, 0/3, 0/4
- F.FastEthernet 0/1, 0/2, 0/4, 0/5, 0/6, 0/7, 0/8

Correct Answers: C