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Vendor:Cisco

Exam Code:300-101

Exam Name:Implementing Cisco IP Routing

Version:Demo

QUESTION 1

What authentication type is used by SNMPv2?

- A. username and password
- B. community strings
- C. HMAC-MD5
- D. HMAC-SHA

Correct Answer: B

QUESTION 2

Which two statements about route targets that are configured with VRF-Lite are true? (Choose two)

- A. Route targets uniquely identify the customer routing table
- B. Route targets control the import and export of routes into a customer routing table
- C. Route targets are supported only when BGP is configured
- D. When IS-IS is configured, route targets identify the circuit level in which the customer resides
- E. When BGP is configured, route targets are transmitted as BGP standard communities
- F. Route targets allow customers to be assigned overlapping addresses

Correct Answer: BC

QUESTION 3

Refer to the exhibit.

```
access-list 1 permit 172.16.1.0.0.0.255
ip nat inside source list 1 interface gigabitethernet0/0 overload
```

You have correctly identified the inside and outside interfaces in the NAT configuration of this device. Which effect of this configuration is true?

- A. static NAT
- B. dynamic NAT
- C. PAT

D. NAT64

Correct Answer: C

QUESTION 4



Which LSA type does R3 propagate into Area 1 for the 192.168.10.0/24 network?

- A. type 3 LSA
- B. type 5 LSA
- C. type 7 LSA
- D. type 10 LSA

Correct Answer: C

QUESTION 5

Refer to the exhibit. When summarizing these routes, which route is the summarized route?

```
OI 2001:DB8:0:7::/64 [110/20]
  via FE80::A8BB:CCFF:FE00:6F00, Ethernet0/0
OI 2001:DB8:0:8::/64 [110/100]
  via FE80::A8BB:CCFF:FE00:6F00, Ethernet0/0
OI 2001:DB8:0:9::/64 [110/20]
  via FE80::A8BB:CCFF:FE00:6F00, Ethernet0/0
```

- A. OI 2001:DB8::/48 [110/100] via FE80::A8BB:CCFF:FE00:6F00, Ethernet0/0
- B. OI 2001:DB8::/24 [110/100] via FE80::A8BB:CCFF:FE00:6F00, Ethernet0/0
- C. OI 2001:DB8::/32 [110/100] via FE80::A8BB:CCFF:FE00:6F00, Ethernet0/0
- D. OI 2001:DB8::/64 [110/100] via FE80::A8BB:CCFF:FE00:6F00, Ethernet0/0

Correct Answer: A

QUESTION 6

Which three statements about IPv6 EIGRP are true? (Choose three.)

- A. EIGRP neighbor relationships can be formed only on the configured IPv6 address.
- B. It supports EUI-64 addresses only.
- C. EIGRP route advertisement is configured under the interface configuration.
- D. EIGRP neighbor relationships are formed using the link-local address.
- E. EIGRP route advertisement is configured under the ipv6 router eigrp configuration.
- F. An IPv6 EIGRP router ID is required.

Correct Answer: CDF

QUESTION 7

A route map uses an ACL, if the required matching is based on which criteria?

- A. addressing information
- B. route types
- C. AS paths
- D. metrics

Correct Answer: A

QUESTION 8

What are two protocols used for user with authentication on network device? (OR)

What are two options for authenticating a user who is attempting to access a network device?(Choose two)

- A. CHAP
- B. Radius
- C. 802.1x
- D. PAP
- E. TACACS+

Correct Answer: BE

QUESTION 9

A router was configured with the `eigrp stub` command. The router advertises which types of routes?

- A. connected, static, and summary
- B. static and summary
- C. connected and static
- D. connected and summary

Correct Answer: D

QUESTION 10

Device R1 has 1 Gigabit and 10 Gigabit Ethernet interfaces, Which command do you enter so that takes full advantage of OSPF costs?

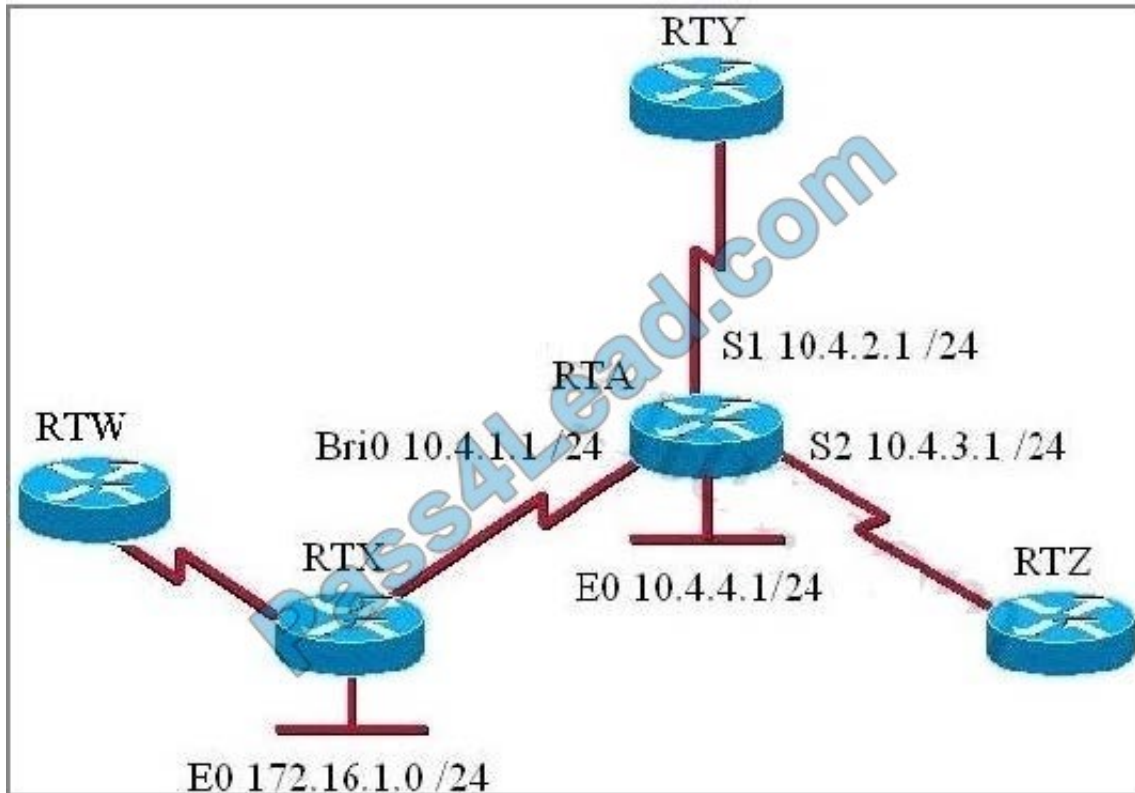
- A. `R1(config router)#auto-cost reference-bandwidth 10000`
- B. `R1(config route-map)#set metric 10000000000`
- C. `R1(config if)#ip ospf cost 10000`
- D. `R1(config router)#auto*cost reference-bandwidth 10000000000`
- E. `R1(config if)# ip ospf cost 1000000000`
- F. `R1(config route-map)#set metric 10000`

Correct Answer: A

QUESTION 11

Router RTA is configured as follows:

```
RTA (config)# router rip
RTA(config-router)# network 10.0.0.0
RTA(config-router)# distribute-list 44 in interface BRIO
RTA(config-router)# exit
RTA(config)# access-list 44 deny 172.16.1.0 0.0.0.255
RTA(config)# access-list 44 permit any
```



What are the effects of this RIP configuration on router RTA? (Choose two)

- A. no routing updates will be sent from router RTA on interface BRIO to router RTX
- B. router RTA will not advertise the 10.0.0.0 network to router RTX
- C. the route to network 172.16.1.0 will not be entered into the routing table on router RTA
- D. user traffic from the 172.16.1.0 network is denied by access-list 44
- E. the routing table on router RTA will be updated with the route to router RTW

Correct Answer: CE

Distribute list are used to filter routing updates and they are based on access lists. In this case, an access list of 44 was created to deny the route from network 172.16.1.0/24 so this route will not be entered into the routing table of RTA.

But the route from RTW can be entered because it is not filtered by the access list.

A and B are not correct because the distribute list is applied to the inbound direction of interface BRIO so outgoing routing updated will not be filtered.

D is not correct because distribute list just filters routing updates so user traffic from network 172.16.1.0 will not be denied.

QUESTION 12

Which three are characteristics of IPv6? (Choose three.)

- A. An IPv6 address is 128 bits long.
- B. An IPv6 header is 20 bits long.
- C. An IPv6 header contains the next header field.
- D. An IPv6 header contains the protocol field.
- E. IPv6 routers send RA messages.
- F. An IPv6 header contains the header checksum field.

Correct Answer: ACE

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