



642-902^{Q&As}

Implementing cisco ip routing

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QUESTION 1

Which of the following is a GRE Tunnel characteristic?

- A. GRE impose more CPU overhead than IPSec on VPN gateways
- B. GRE tunnels can run through IPsec tunnels.
- C. GRE Tunnel doesn't have support for IPv6
- D. GRE consists of two sub-protocols: Encapsulated Security Payload (ESP) and Authentication Header (AH).

Correct Answer: B

If you run an IPsec tunnel through a GRE tunnel then we call it as "IPsec over GRE"

QUESTION 2

A network administrator would like to configure an EIGRP router as a stub router that advertises directly connected and summary routes only. What command must the administrator issue to accomplish this?

- A. eigrp stub
- B. eigrp stub connected
- C. eigrp stub summary
- D. eigrp stub connected static
- E. eigrp stub receive-only

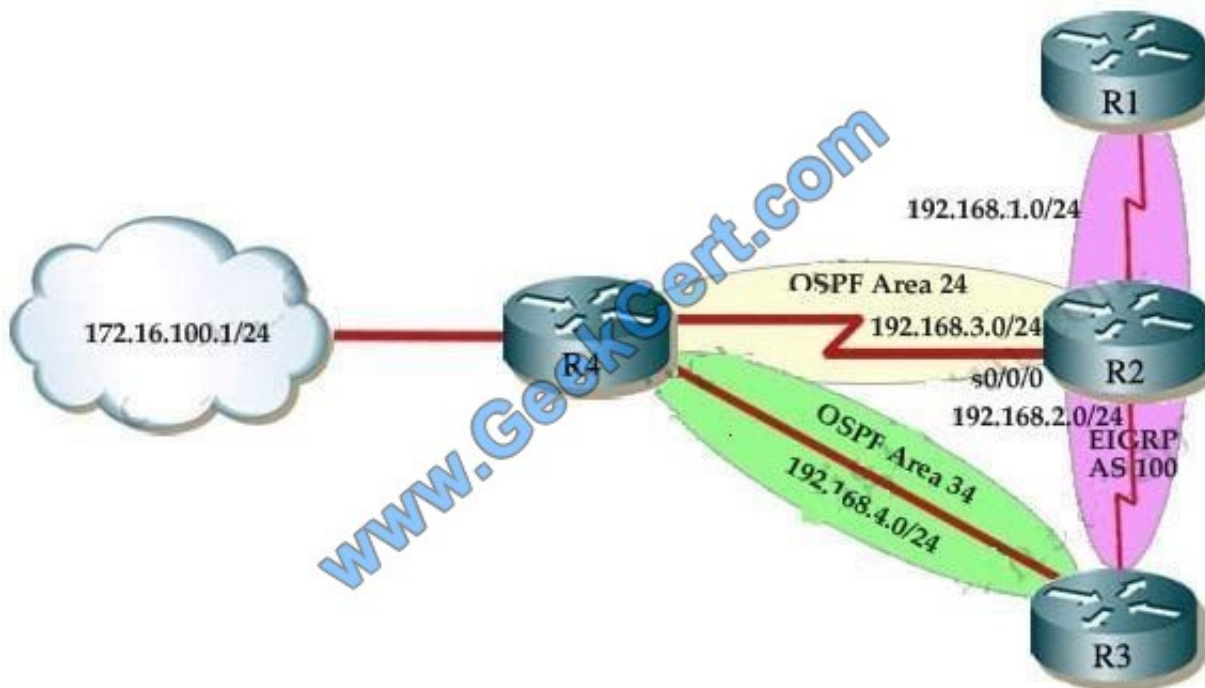
Correct Answer: A

Reference: http://www.cisco.com/en/US/docs/ios/12_0s/feature/guide/eigrpstb.html#wp1036215

QUESTION 3

((EIGRP OSPF Redistribution Sim)

In this question you need to redistribute between OSPF and EIGRP such that 172.16.100.1 is reachable from router R1.



R2 is an ASBR for EIGRP 100 and OSPF AREA 24

R3 is an ASBR for EIGRP 100 and OSPF AREA 34

Note. There are TWO separate areas on TWO separate ASBRs thus you need to do redistribution on R2 and R3

R1 is ONLY in EIGRP 100, and is THE ONLY router you can ping from. R4 has a loopback interface that must be pinged from R1.

R4 is running OSPF and has redundant links to EIGRP network over R3 router. Note. You should ping from R1 to 172.16.100.1 network to make sure everything is working correctly.

Correct Answer: For Answer please see explanation.

Explanation/Reference:

First we need to find out 5 K-Values used for EIGRP (Bandwidth, Delay, Reliability, Load, MTU) of the s0/0/0 interface (the interface of R2 connected to R4) for redistribution :

```
R2#show interface s0/0/0
```

Write down these 5 parameters, notice that we have to divide the Delay by 10 because its metric unit is tens of microsecond. For example, we get Bandwidth=1544 Kbit, Delay=20000 us, Reliability=255, Load=1, MTU=1500 bytes then we

would redistribute as follows:

```
R2#config terminal
```

```
R2(config)#router ospf 1
```

```
R2(config-router)# redistribute eigrp 100 metric-type 1 subnets R2(config-router)#exit
```

```
R2(config-router)#router eigrp 100
```



```
R2(config-router)#redistribute ospf 1 metric 1544 2000 255 1 1500
```

(Notice: In fact, these parameters are just used for reference and we can use other parameters with no problem. Also, a candidate said that the simulator didn't accept the Bandwidth of 1544; in that case, we can use a lower value, like 128.)
If

the delay is 20000us then we need to divide it by 10, that is $20000 / 10 = 2000$) For R3 we use the show interface fa0/0 to get 5 parameters too R3#show interface fa0/0

For example we get Bandwidth=10000 Kbit, Delay=1000 us, Reliability=255, Load=1, MTU=1500 bytes

```
R3#config terminal
```

```
R3(config)#router ospf 1
```

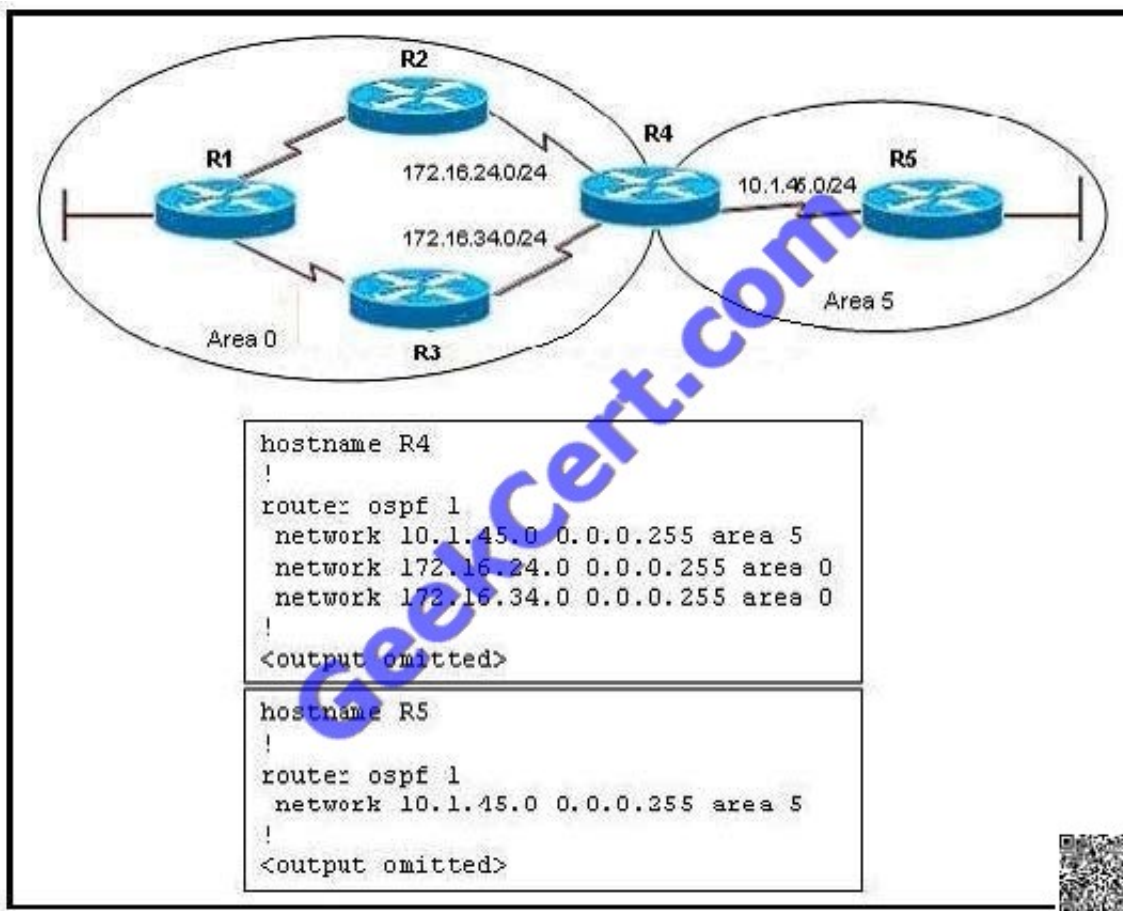
```
R3(config-router)#redistribute eigrp 100 metric-type 1 subnets R3(config)#exit
```

```
R3(config-router)#router eigrp 100
```

```
R3(config-router)#redistribute ospf 1 metric 10000 100 255 1 1500
```

QUESTION 4

Refer to the exhibit.





What additional commands should be used to configure OSPF area 5 as a Totally Stubby area?

- A. area 0 stub on routers R4 and R5
- B. area 5 stub on routers R4 and R5
- C. area 5 stub no-summary on routers R4 and R5
- D. area 0 stub no-summary on router R4 and area 5 stub no-summary on router R5
- E. area 5 stub no-summary on router R4 and area 5 stub on router R5

Correct Answer: E

To define a totally stub area, use the `area area-id stub no-summary` command on the ABR (in OSPF router configuration) and the `area area-id stub` on the totally stub router. The ABR will inject a default route into the area so routers in this type of area only see routing information local to their area, plus a default route pointing to the ABR, from which they can reach all other areas and all other networks

QUESTION 5

Which two reductions are the correct reductions of the IPv6 address 2001:0d02:0000:0000:0014:0000:0000:0095?
(Choose two)

- A. 2001:0d02:::0014:::0095
- B. 2001:d02::14::95
- C. 2001:d02:0:0:14::95
- D. 2001:d02::14:0:0:95

Correct Answer: CD

We can't use triple colons (:::) in IPv6 presentation. Also We can't use double colons (::) twice. You can use it only once in any address because if two double colons are placed in the same address, there will be no way to identify the size of each block of 0s. Remember the following techniques to shorten an IPv6 address:

-

Omit leading 0s in the address field, so :0000 can be compressed to just :0 and :0d02 can be compressed to :d02 (but :1d00 can not be compressed to :1d)

-

Use double colons (::), but just once, to represent a contiguous block of 0s, so 2001:0d02:0000:0000:0014:0000:0000:0095 can be compressed to 2001:0d02::14:0:0:95 or 2001:0d02:0:0:14::95

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