



# 642-902<sup>Q&As</sup>

Implementing cisco ip routing

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## QUESTION 1

Refer to the exhibit.

```
R1#show ip eigrp topology | section 0.0.0.0
P 0.0.0.0/0, 2 successors, FD is 2174976
  via 212.50.185.125 (2174976/2169856), Ethernet0/0
  via 212.50.185.126 (2174976/2169856), Ethernet0/0
  via 212.50.185.65 (2180096/2172416), Ethernet1/0
  via 212.50.185.66 (2180096/2172416), Ethernet1/0
  via 212.50.185.33 (2180096/2172416), Ethernet2/0
  via 212.50.185.34 (2180096/2172416), Ethernet2/0
R1#show ip route 0.0.0.0
Routing entry for 0.0.0.0/0, supernet
  Known via "eigrp 212", distance 170, metric 2174976, candidate default path, type external
  Redistributing via eigrp 212
  Last update from 212.50.185.126 on Ethernet0/0, 00:00:32 ago
  Routing Descriptor Blocks:
  * 212.50.185.126, from 212.50.185.126, 00:00:32 ago, via Ethernet0/0
    Route metric is 2174976, traffic share count is 1
    Total delay is 20200 microseconds, minimum bandwidth is 1544 kbit
    Reliability 255/255, minimum MTU 1500 bytes
    Loading 3/255, Hops 1
  212.50.185.125, from 212.50.185.125, 00:00:32 ago, via Ethernet0/0
    Route metric is 2174976, traffic share count is 1
    Total delay is 20200 microseconds, minimum bandwidth is 1544 kbit
    Reliability 255/255, minimum MTU 1500 bytes
    Loading 3/255, Hops 1
```



All EIGRP load balancing parameters are set to their defaults. You want to use all the routes in the EIGRP topology for IP load balancing Which two EIGRP subcommands would you use to accomplish this goal? (Choose two.)

- A. traffic-share balanced
- B. distance
- C. maximum-paths
- D. default-network
- E. variance

Correct Answer: CE

Notice that the "maximum-paths" command is used to share traffic to equal cost path while the "variance" command can share traffic to unequal cost path.

In the output above we learn that EIGRP is using 2 successors to send traffic. By using the "variance 2 command we can share traffic to other feasible successor routes. But by default, EIGRP only shares traffic to 4 paths. So we need to use the "maximum-paths 6 to make sure all of these routes are used.

## QUESTION 2

Which DSL encapsulation method requires client software running on the end-user PC that is directly connected to a DSL modem?

- A. PPPoA
- B. PPPoE



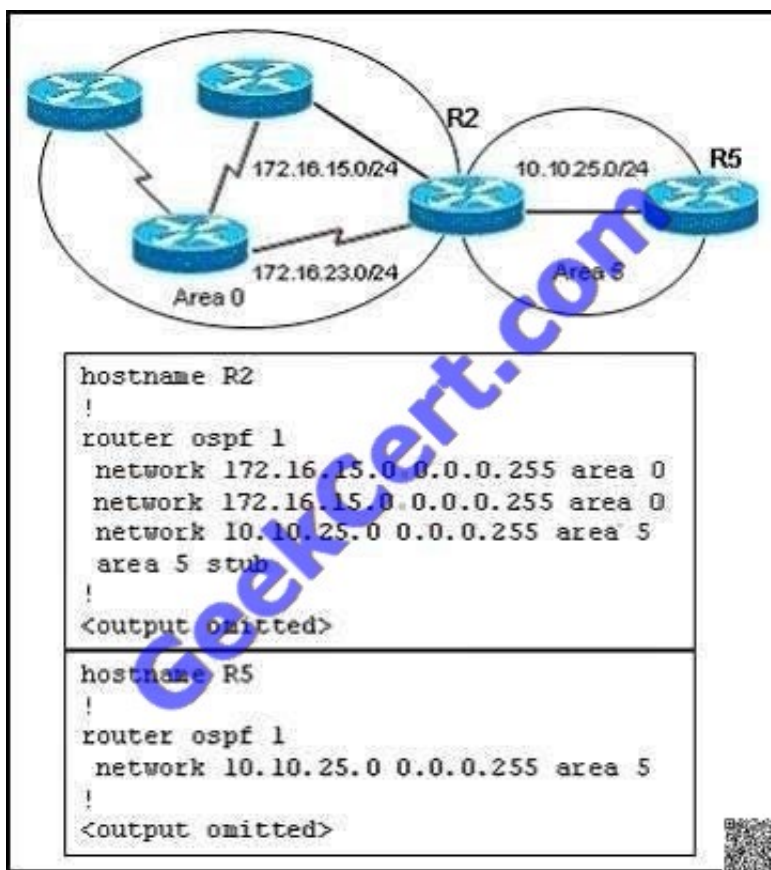
- C. PPP
- D. L2TP
- E. ATM

Correct Answer: B

Reference: <http://www.vicomsoft.com/learning-center/pppoe/>

### QUESTION 3

Refer to the exhibit.



On the basis of the configuration provided, how are the Hello packets sent by R2 handled by R5 in OSPF area 5?

- A. The Hello packets will be exchanged and adjacency will be established between routers R2 and R5.
- B. The Hello packets will be exchanged but the routers R2 and R5 will become neighbors only.
- C. The Hello packets will be dropped and no adjacency will be established between routers R2 and R5.
- D. The Hello packets will be dropped but the routers R2 and R5 will become neighbors.

Correct Answer: C

The point of this question is the conditions of OSPF establish adjacency relationship. For ospf, the optional capabilities



must set the same between neighbors, but from the exhibit, R5 was configured as a stub area while R2 in area 0 is a normal area. So there will be no adjacent relationship established between routers R2 and R5.

#### QUESTION 4

What number is a valid representation for the 200F:0000:AB00:0000:0000:0000/56 IPv6 prefix?

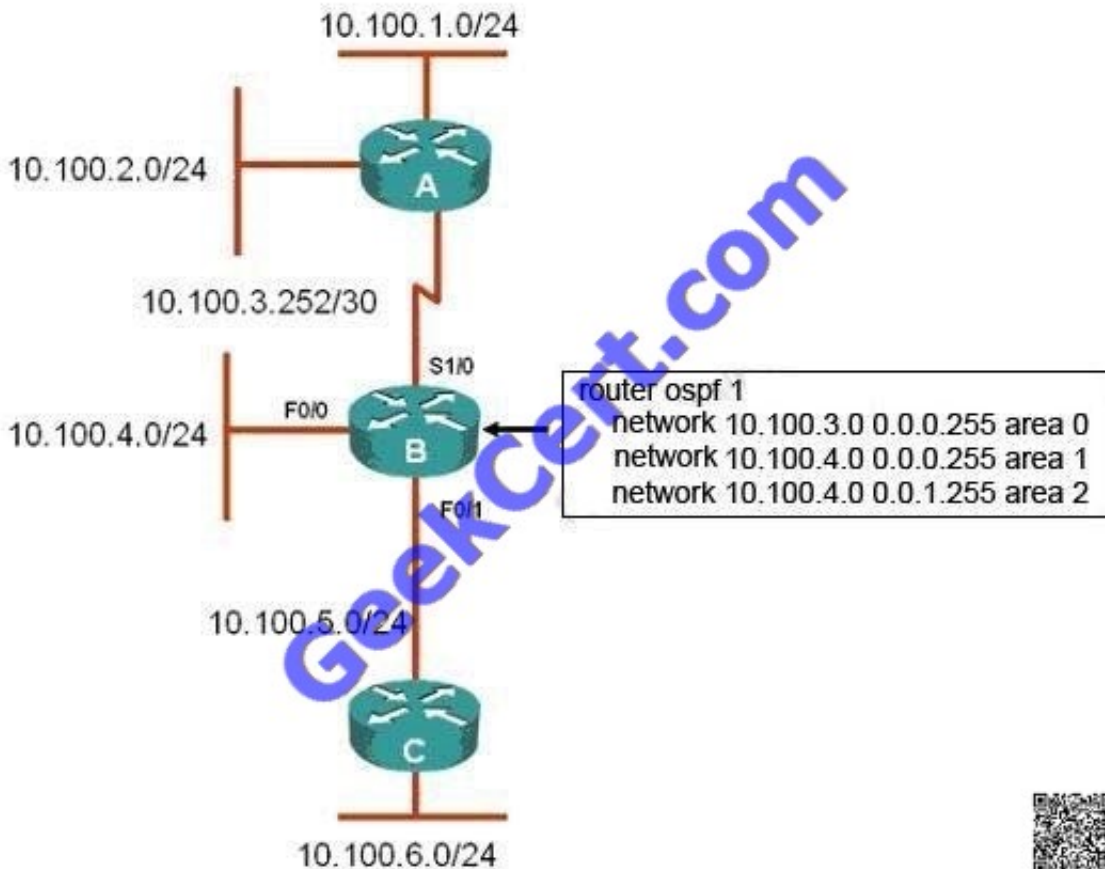
- A. 200F:0:0:AB/56
- B. 200F:0:AB00::/56
- C. 200F::AB00/56
- D. 200F:AB/56

Correct Answer: B

The 0s are truncated.

#### QUESTION 5

Refer to the exhibit.





What is the effect of the OSPF configuration on router B?

- A. All interfaces will be in area 0.
- B. The router will be an ABR with s1/0 in area 0 and f0/0 and 0/1 in area 1.
- C. The router will be an ABR with s1/0 in area 0 and f0/0 and 0/1 in area 2.
- D. The router will be an ABR with s1/0 in area 0, f0/0 in area 1, and f0/1 in area 2.

Correct Answer: D

Reference: [https://www.google.com/url?](https://www.google.com/url?sa=t&drct=j&dq=andescr=sandsource=webandcd=4andcad=rjaandved=0CEIQFjADandurl=https%3A%2F%2Flearningnetwork.cisco.com%2Fservlet%2FJiveServlet%2Fdownload%2F4907-2332%2FCase%2520..andei=sU-rUeGvFlanhAfRIHwDQandusg=AFQjCNH4zqER_WNMmrHEY2VhuMzDTy7D1xQandsig2=v1xIJWspSrBE6szoQAP8cgandbvm=bv.47244034,d.ZG4)

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