



# 300-101<sup>Q&As</sup>

Implementing Cisco IP Routing

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### QUESTION 1

Click and drag the associated set of OSPF LEAs on the left to the corresponding area type on the right where this set of LEAs may be seen.

Select and Place:

|                   |                     |
|-------------------|---------------------|
| LAS 1, 2, 3, 4, 5 | Stub                |
| LAS 1, 2, 3       | NSSA                |
| LAS 1, 2          | Backbone or transit |
| LAS 1, 2, 3, 7    | Totally NSSA        |
| LAS 1, 2, 7       | Totally Stubby      |

Correct Answer:

|  |                   |
|--|-------------------|
|  | LAS 1, 2, 3       |
|  | LAS 1, 2, 3, 7    |
|  | LAS 1, 2, 3, 4, 5 |
|  | LAS 1, 2, 7       |
|  | LAS 1, 2          |

### QUESTION 2

Which method allows IPv4 and IPv6 to work together without requiring both to be used for a single connection during the migration process?

- A. dual-stack method
- B. 6to4 tunneling
- C. GRE tunneling
- D. NAT-PT



Correct Answer: A

Dual stack means that devices are able to run IPv4 and IPv6 in parallel. It allows hosts to simultaneously reach IPv4 and IPv6 content, so it offers a very flexible coexistence strategy. For sessions that support IPv6, IPv6 is used on a dual

stack endpoint. If both endpoints support Ipv4 only, then IPv4 is used.

Benefits:

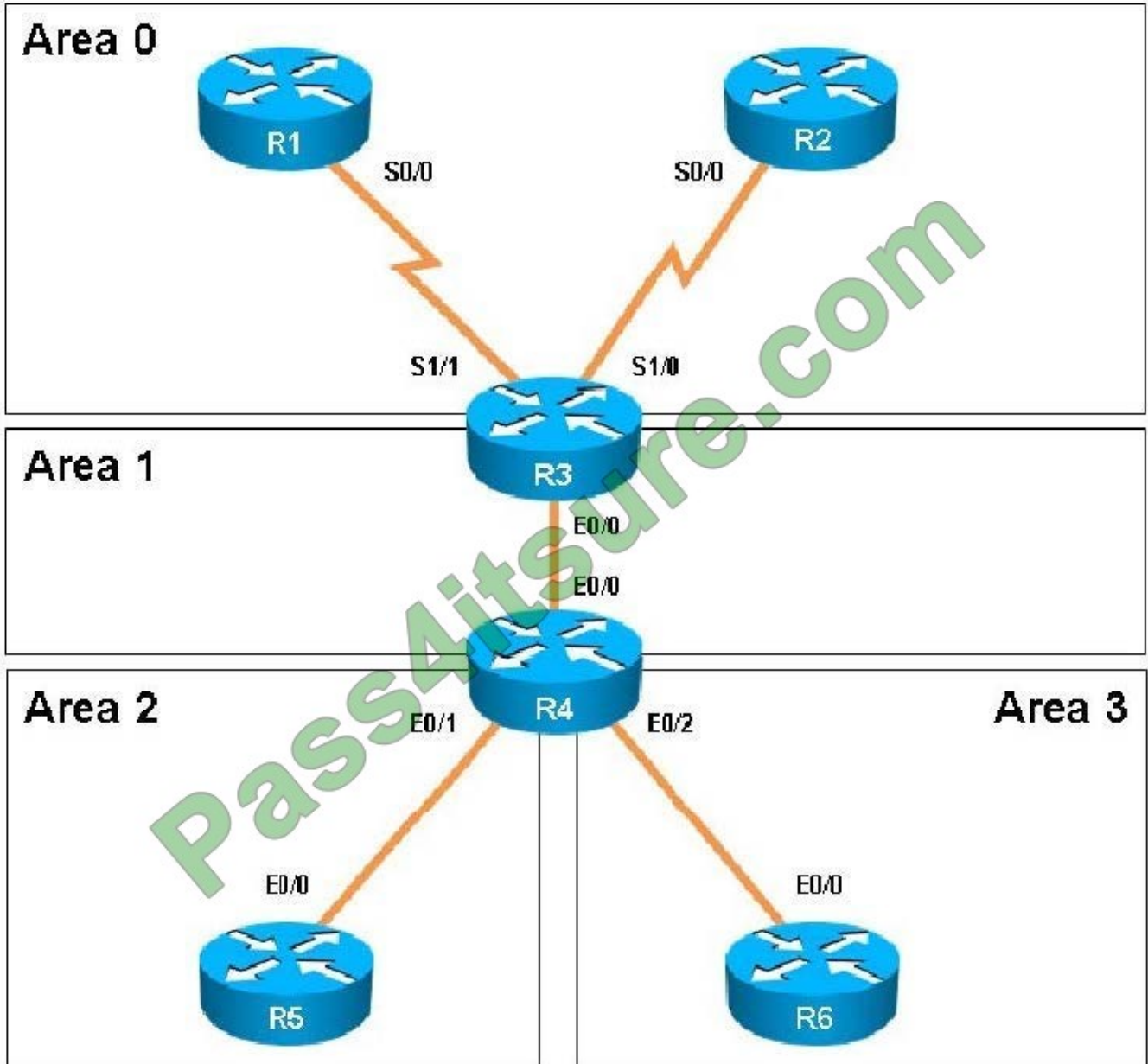
Native dual stack does not require any tunneling mechanisms on internal networks Both IPv4 and IPv6 run independent of each other Dual stack supports gradual migration of endpoints, networks, and applications. Reference: <http://>

[www.cisco.com/web/strategy/docs/gov/IPV6at\\_a\\_glance\\_c45-625859.pdf](http://www.cisco.com/web/strategy/docs/gov/IPV6at_a_glance_c45-625859.pdf)

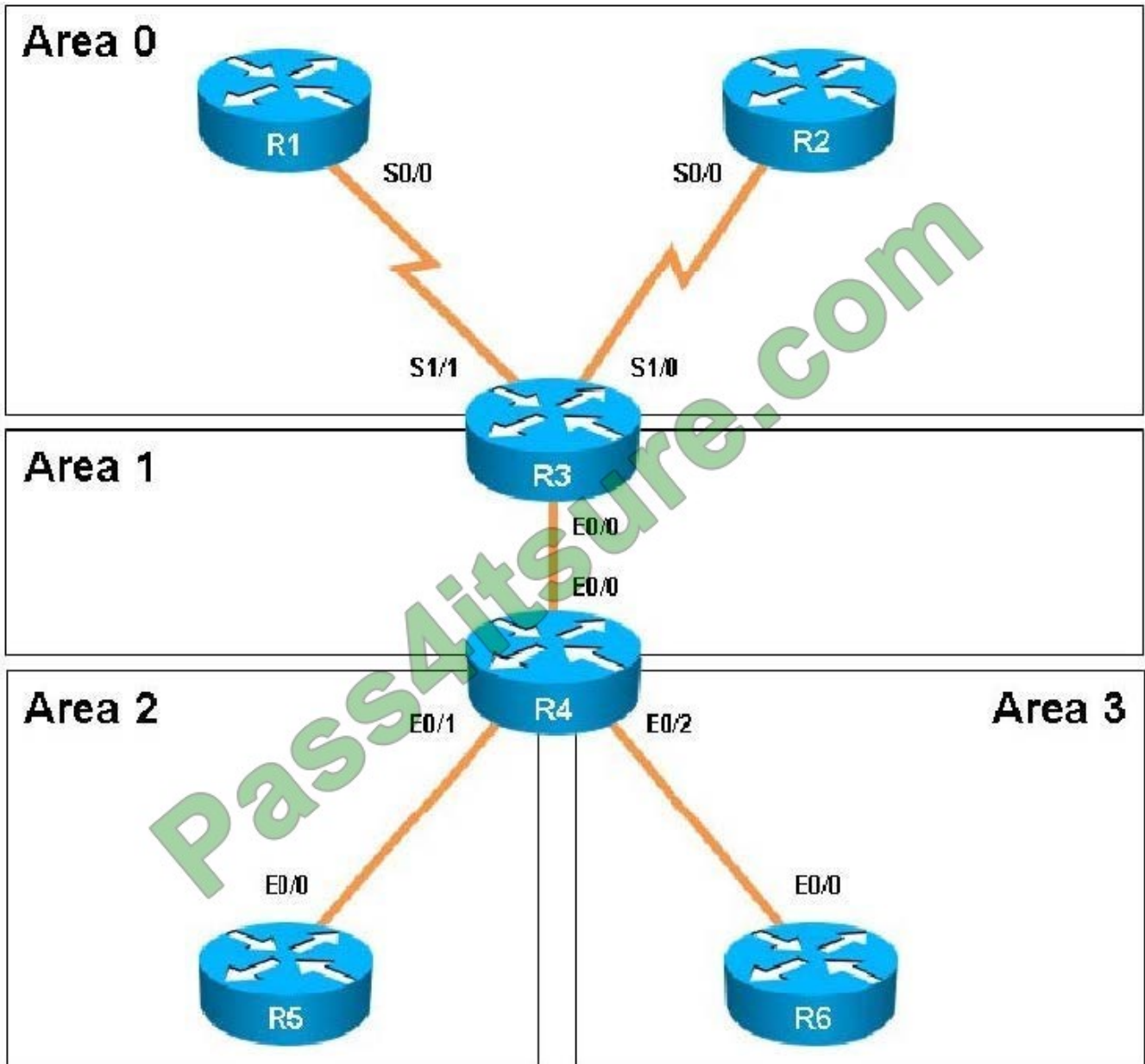
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### QUESTION 3

You have been asked to evaluate an OSPF network setup in a test lab and to answer questions a customer has about its operation. The customer has disabled your access to the show running- config command.



How old is the Type 4 LSA from Router 3 for area 1 on the router R5 based on the output you have examined?



Which of the following statements is true about the serial links that terminate in R3

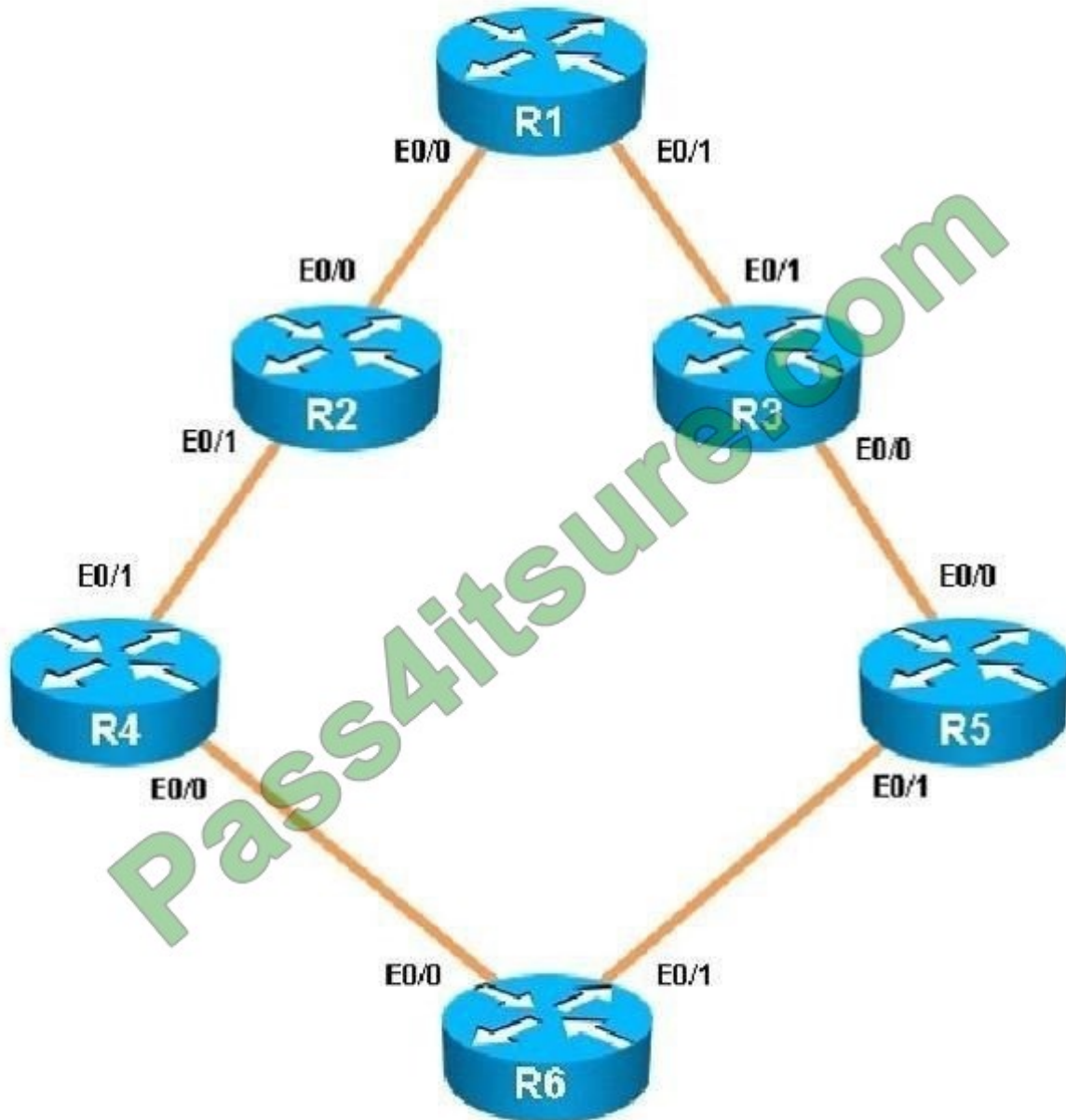
- A. The R1-R3 link needs the neighbor command for the adjacency to stay up
- B. The R2-R3 link OSPF timer values are 30, 120, 120
- C. The R1-R3 link OSPF timer values should be 10,40,40
- D. R3 is responsible for flooding LSUs to all the routers on the network.

Correct Answer: B

**QUESTION 4**



You have been asked to evaluate how EIGRP is functioning in a customer network.



What type of route filtering is occurring on R6?

- A. Distribute-list using an ACL
- B. Distribute-list using a prefix-list
- C. Distribute-list using a route-map
- D. An ACL using a distance of 255

Correct Answer: A

The configuration on R6 is as follows:



```
router eigrp 1
  distribute-list 1 out
  network 150.1.6.6 0.0.0.0
  network 172.16.6.6 0.0.0.0
  network 192.168.46.0
  network 192.168.56.0
!
!
!
no ip http server
!
access-list 1 permit 192.168.46.0
access-list 1 permit 192.168.56.0
access-list 1 permit 150.1.6.6
access-list 1 deny 172.16.6.6
access-list 2 permit 192.168.47.1
access-list 2 permit 192.168.13.1
access-list 2 permit 192.168.12.1
access-list 2 deny 150.1.1.1
!
```

This is a standard distribute list using access list number 1.

#### QUESTION 5

Refer to Exhibit, which statement about the configuration on the Cisco router is true?

```
Router(config)#ntp source Loopback0
Router(config)#interface eth 0/0
Router(config-if)#ntp disable
```

- A. The router sends only NTP traffic, using the loopback interface, and it disables eth0/0 from sending NTP traffic.
- B. Eth0/0 sends NTP traffic on behalf of the loopback interface
- C. The router sends only NTP traffic, using the eth0/0 interface, and it disables loopback0 from sending NTP traffic.
- D. The router never sends NTP traffic, as using the loopback interface for NTP traffic is not supported on IOS routers.

Correct Answer: A



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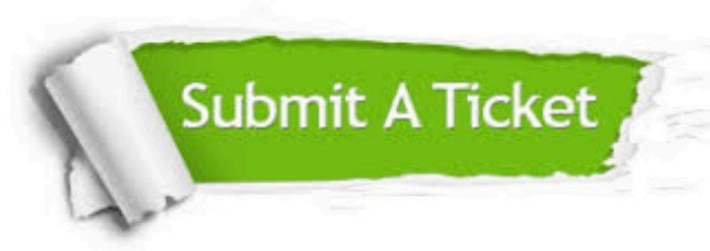
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