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4A0-C01

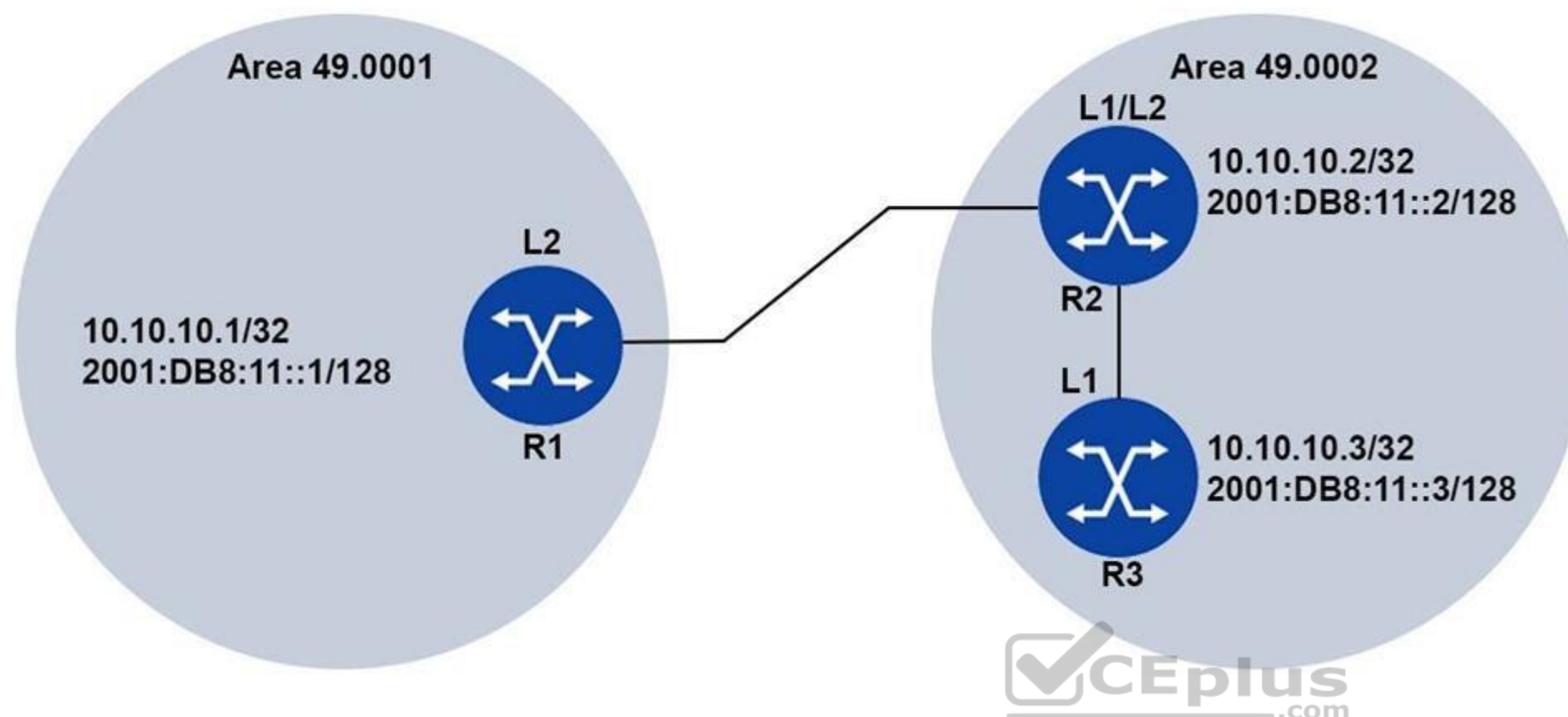
Nokia NRS II Composite Exam



Exam A

QUESTION 1

Refer to the exhibit.



The routers have established IS-IS adjacencies on which IPv4 system addresses are exchanged. An operator successfully configures multi-topology IS-IS routing so that the IPv6 system addresses are also exchanged between routers. After IPv6 has been configured, which of the following is TRUE?

- A. Router R2 has two IS-IS adjacencies and two LSPs.
- B. Router R2 has two IS-IS adjacencies and three LSPs.
- C. Router R2 has two IS-IS adjacencies and four LSPs.
- D. Router R2 has four IS-IS adjacencies and three LSPs.
- E. Router R2 has four IS-IS adjacencies and four LSPs.
- F. Router R2 has four IS-IS adjacencies and six LSPs.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Which OSPFv3 LSA is similar to the OSPFv2 Type 5 LSA?

- A. AS External
- B. Inter-Area Prefix
- C. Inter-Area Router
- D. Intra-Area Prefix

Correct Answer: A

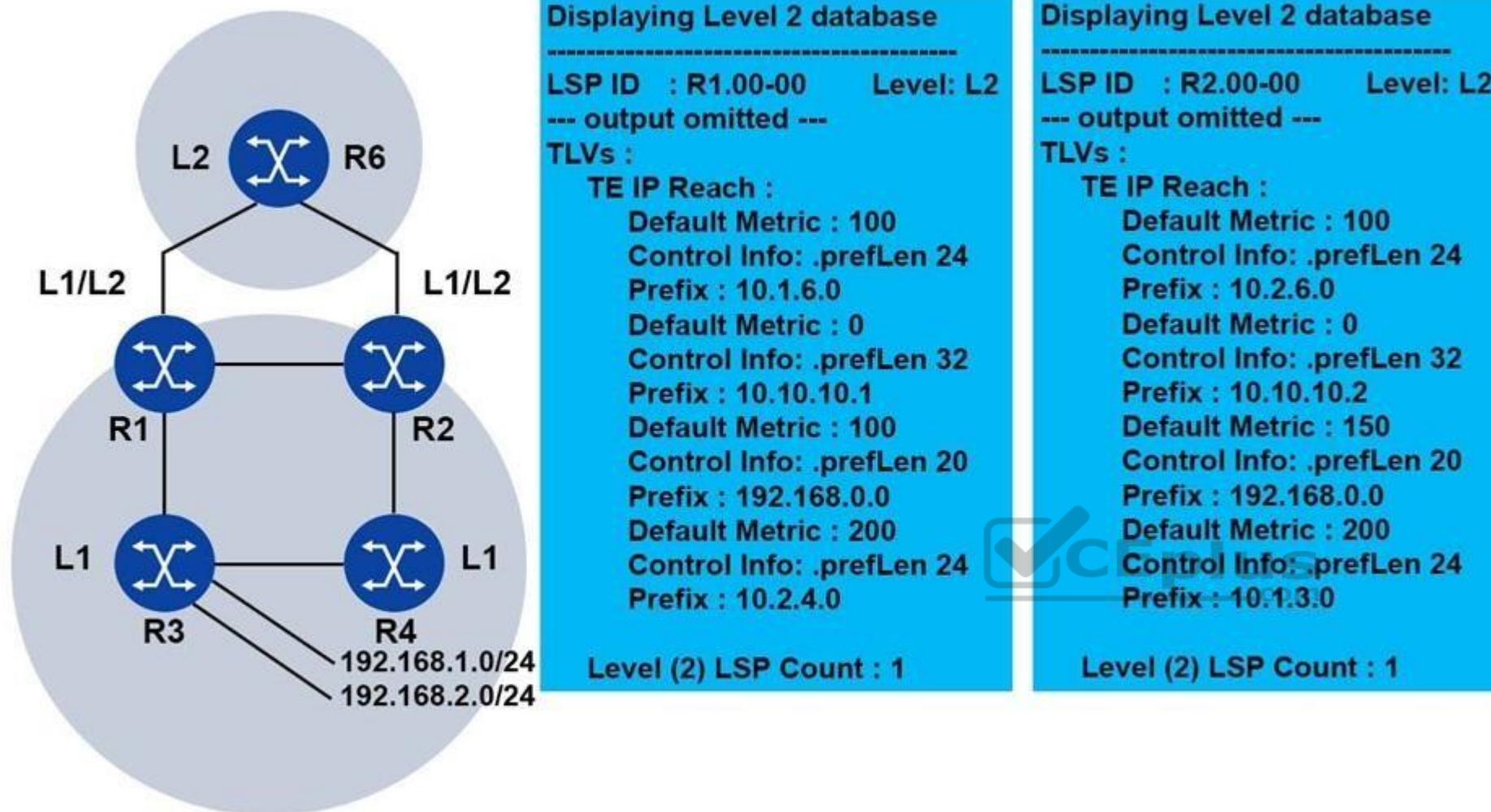
Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Given the contents of the LSPs from routers R1 and R2, which of the following is true?



- A. Router R1 summarizes the prefixes from router R3 as 192.168.0.0/16 and router R2 does not summarize the prefixes.
- B. Router R1 does not summarize the prefixes from routers R3 and R2 summarizes them as 192.168.0.0/16.
- C. Router R1 summarizes the prefixes from router R3 as 192.168.0.0/20 and router R2 does not summarize the prefixes.
- D. Router R1 does not summarize the prefixes from routers R3 and R2 summarizes them as 192.168.0.0/20.
- E. Both routers R1 and R2 summarize the prefixes from R3 as 192.168.0.0/20.
- F. Neither router R1 nor router R2 summarizes the prefixes from router R3.

Correct Answer: E

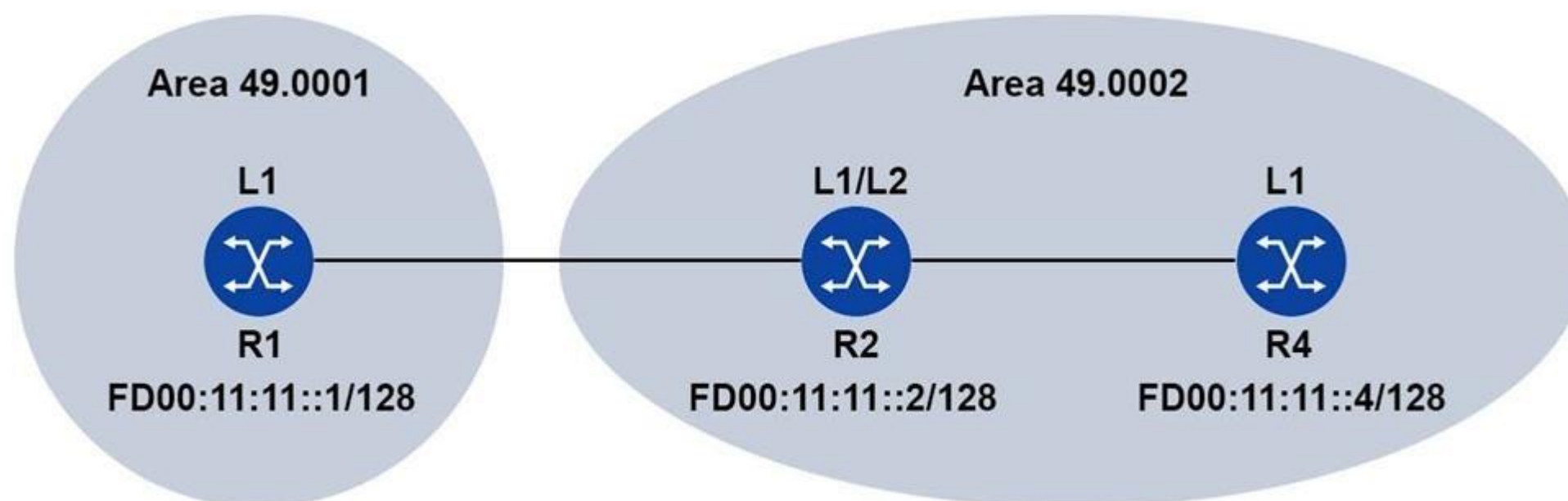
Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

IS-IS IPv6 routing is configured in the network with globally routed addresses as shown. How many routes will router R4 have in its IPv6 route table?



- A. 1
- B. 2
- C. 3
- D. 4
- E. 6
- F. 7

Correct Answer: B

Section: (none)

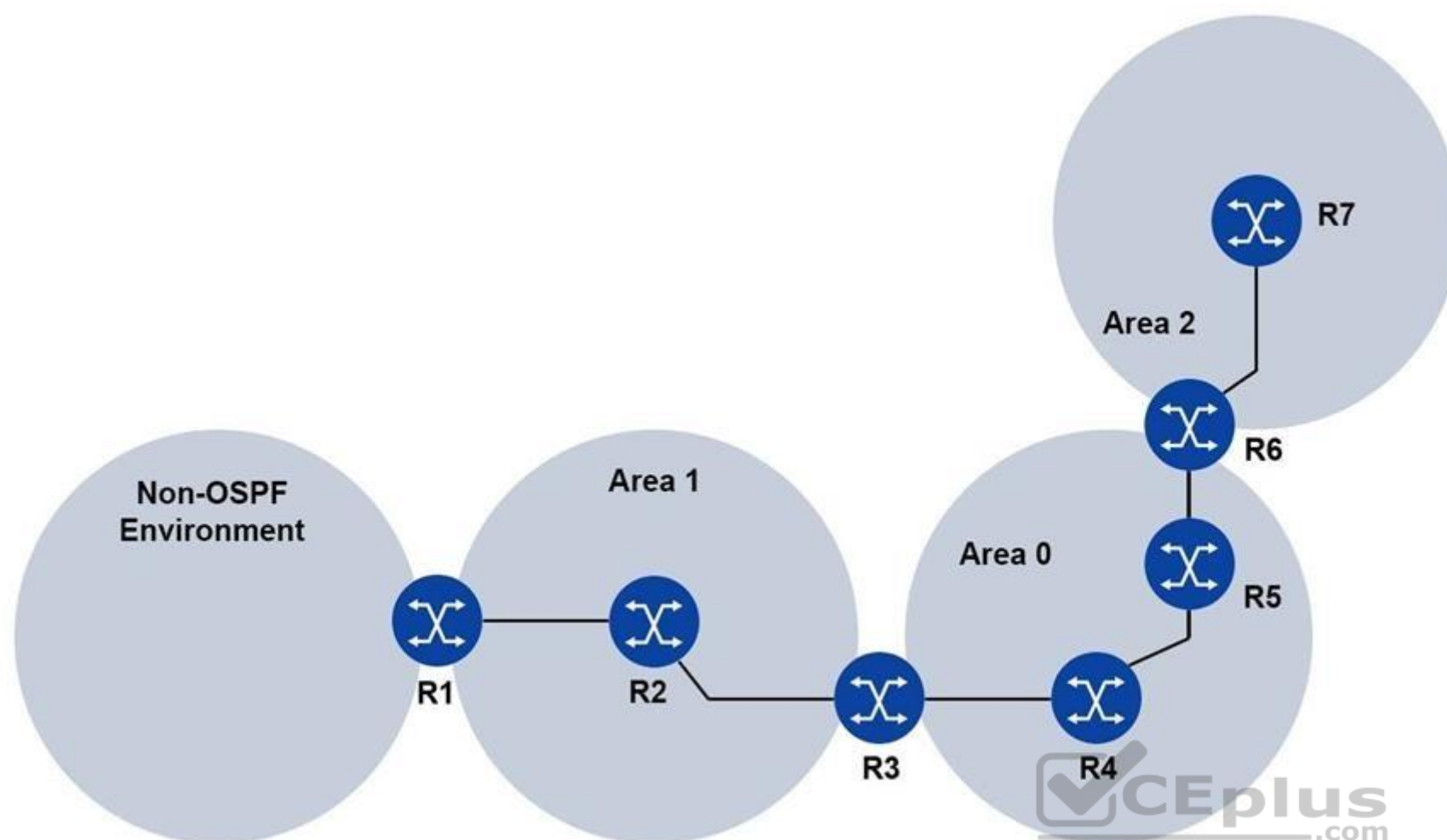
Explanation

Explanation/Reference:



QUESTION 5

In the topology shown, router R1 is an ASBR configured to export external routes to OSPF. Assuming that there are no stub or NSSA networks, which of the following statements regarding LSAs is true?



- A. Only router R1 will generate Type 4 LSAs.
- B. Only router R3 will generate Type 4 LSAs.
- C. Routers R3 and R6 will generate Type 4 LSAs.
- D. Routers R1, R3 and R6 will generate Type 4 LSAs.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

192.168.3.1 is a loopback interface configured into router R2's OSPF area 0. A ping from router R3 to this loopback fails. Which of the following is a possible solution to the problem?

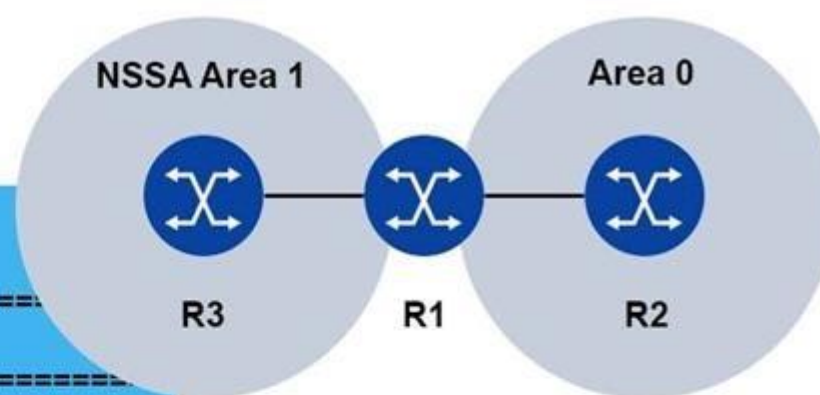

```
*A:R3# show router route-table

=====
Route Table (Router: Base)
=====
Dest Prefix      Type  Proto  Age      Pref
Next Hop[Interface Name]      Metric
-----
10.1.3.0/27      Local  Local  05d21h09m 0
toR1              0
10.10.10.1/32    Remote OSPF   00h17m01s 10
10.1.3.1         100
10.10.10.3/32    Local  Local  0144d19h  0
system           0
-----

No. of Routes: 3
=====

*A:R3# ping 192.168.3.1 count 1
PING 192.168.3.1 56 data bytes
No route to destination. Address: 192.168.3.1. Router: Base

---- 192.168.3.1 PING Statistics ----
1 packet transmitted, 0 packets received, 100% packet loss
*A:R3#
```



- A. Add the “originate-default-route” option in the NSSA area configuration on router R3.
- B. Add the “summaries” option to the NSSA area configuration on router R1.
- C. Configure a static route on router R1 to 192.168.3.1.
- D. Configure a default route on router R2.

Correct Answer: B

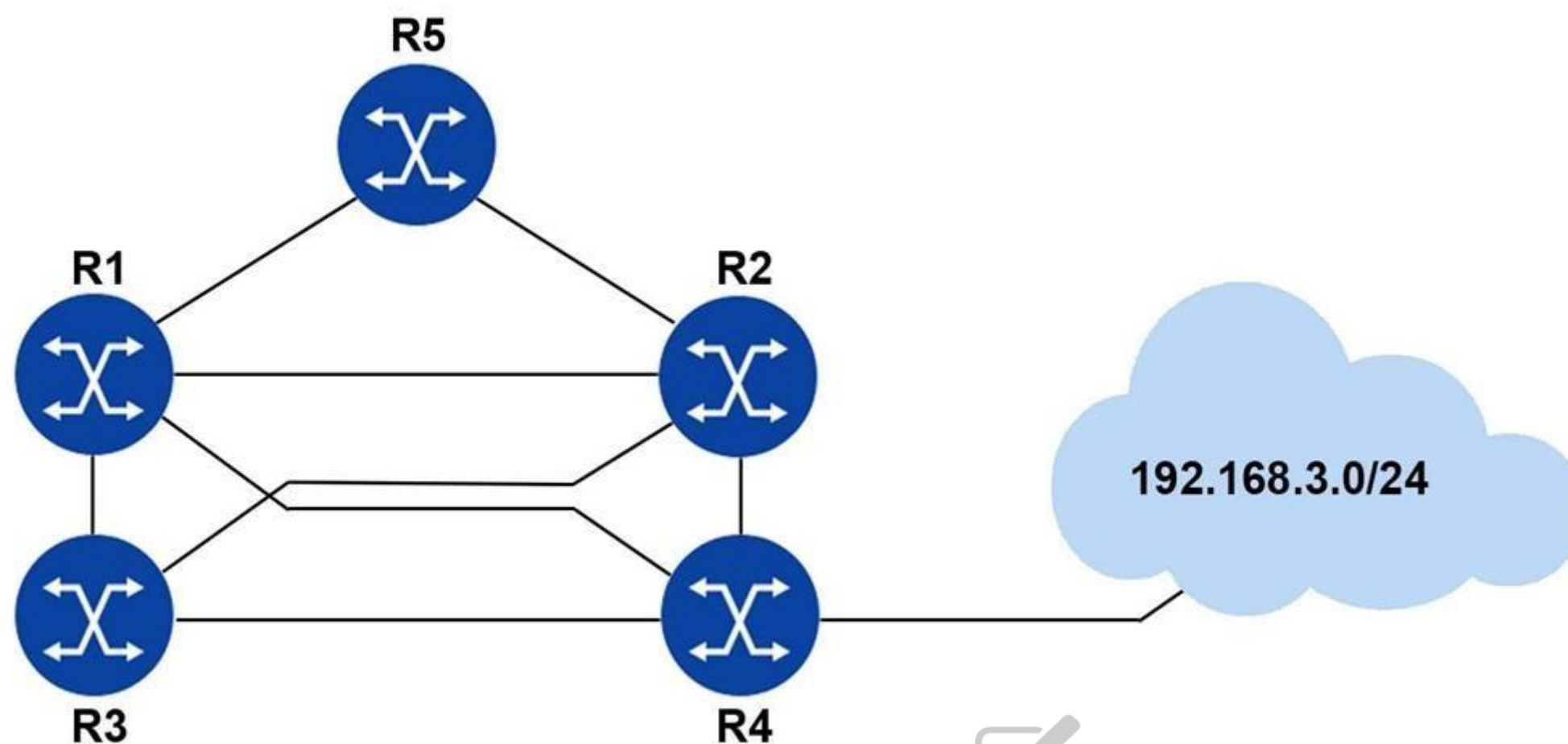
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Explanation

Explanation/Reference:

QUESTION 7

OSPF is operational on all links in the network diagram, all links have the same cost and all routers are configured with an ECMP value of 4. Router R4 advertises the prefix 192.168.3.0/24 into OSPF. How many entries for prefix 192.168.3.0/24 will be in router R1's routing table.



- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Correct Answer: B

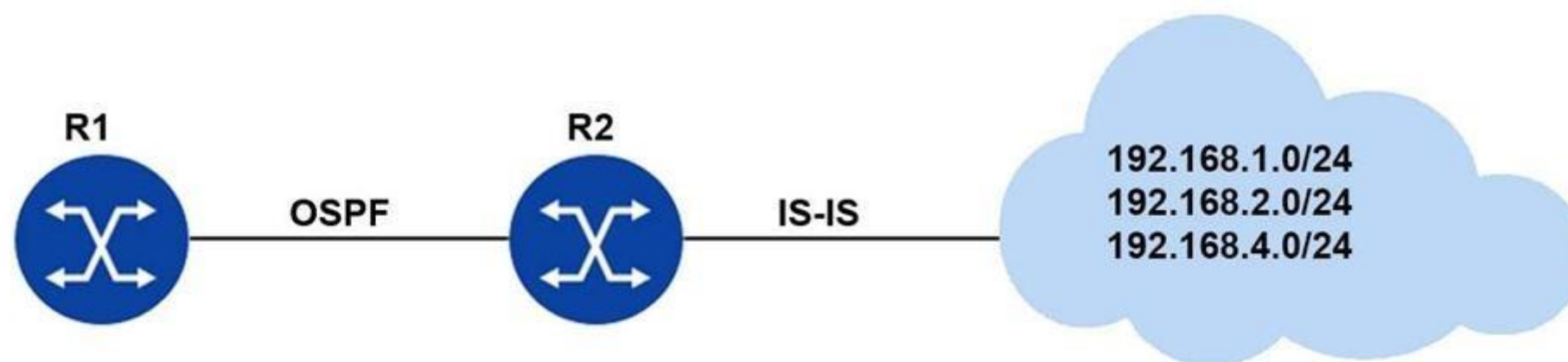
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Explanation

Explanation/Reference:

QUESTION 8

Router R2 learns the networks shown from IS-IS. Router R2 is configured to redistribute routes from IS-IS to OSPF as shown. How many OSPF Type 5 LSAs will router R1 receive from router R2? Assume the OSPF and IS-IS adjacencies are operational.



**A:AIRP_R02>config>router>ospf# info

```

asbr
export "isis-ospf"
area 0.0.0.0
  interface "system"
    no shutdown
  exit
  interface "toR1"
    interface-type point-to-point
    no shutdown
  exit
exit
  
```

*A:AIRP_R02>config>router>ospf#

**A:AIRP_R02>config>router>policy-options# info

```

prefix-list "redist"
  prefix 192.168.0.0/22 longer
exit
policy-statement "isis-ospf"
  entry 10
    from
      protocol isis
      prefix-list "redist"
    exit
    action accept
  exit
exit
  
```

*A:AIRP_R02>config>router>policy-options#

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9 Which of the following best describes the type of packets used by OSPF routers to exchange updates on a point-to-point link?

- A. IP packets sent to an IP multicast address.
- B. TCP packets sent to an IP multicast address.
- C. Ethernet frames sent to an Ethernet MAC address.

D. UDP packets sent to an IP multicast address.

Correct Answer: A

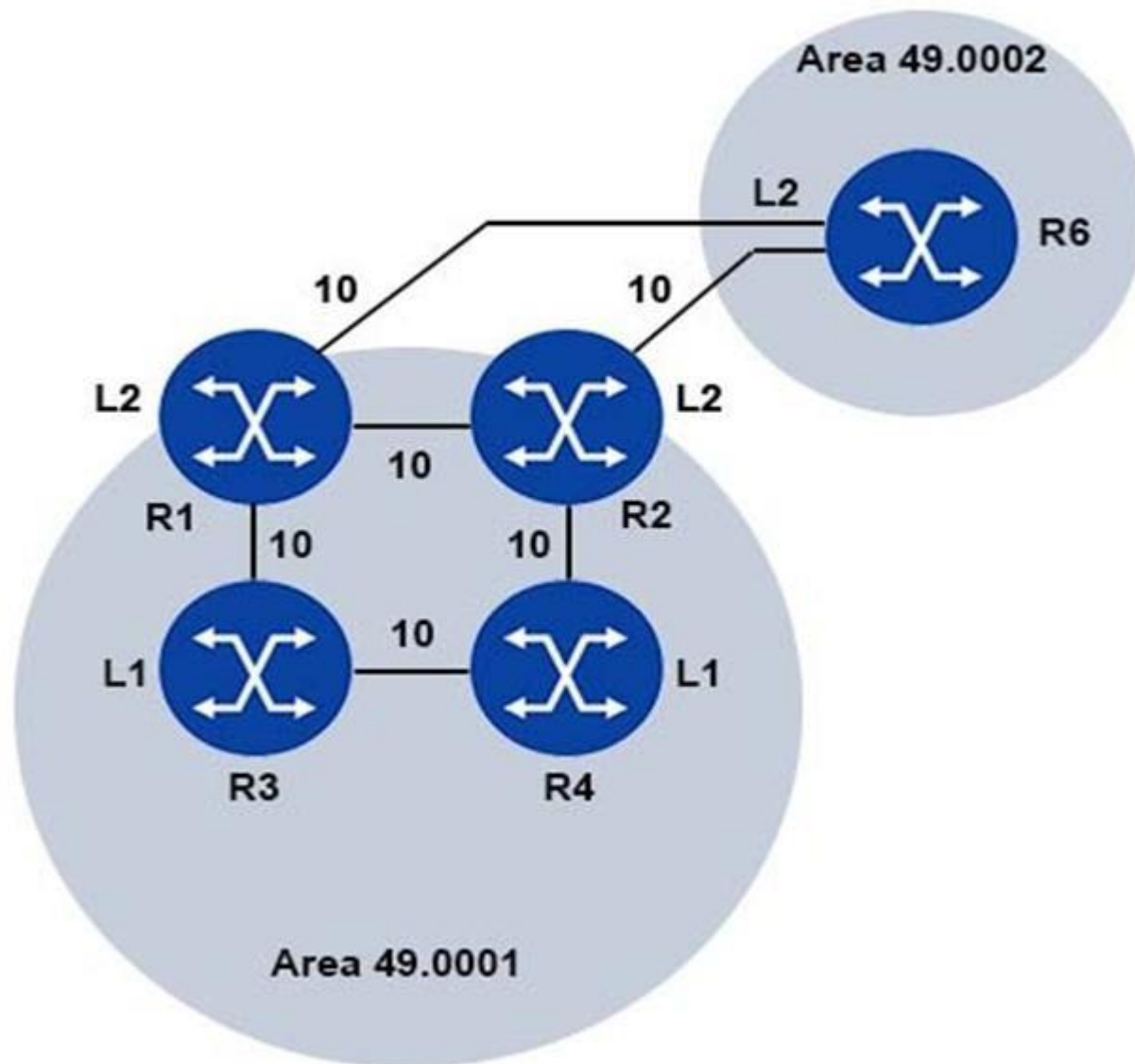
Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Examine the physical topology of the IS-IS network, the metrics of the links and the levels of the routers. All routers have a system address included in IS-IS. Which of the following describes the route that router R4 will use to reach the system address of router R6?



- A. Router R4 will have a route to router R6's system address with router R2 as the next-hop.
- B. Router R4 will have a default route with router R2 as the next-hop.
- C. Router R4 will have a default route with router R3 as the next-hop.
- D. Router R4 will not have a route that can be used to reach the system address of router R6.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

What type of OSPFv3 LSA is shown?

```
-----  
?  LSA  
-----  
Interface Address: 10.2.4.2          Adv Router Id   : 10.10.10.4  
Link State Id      : 2                LSA Type        : ?  
Sequence No       : 0x80000002       Checksum        : 0xf3e4  
Age               : 836                Length          : 44  
Options           : --R--EV6          Rtr Priority     : 1  
Link Local Addr   : FE80::6252:1FF:FE01:3  
No of Pfxs       : 0  
-----
```

- A. Router LSA
- B. Network LSA
- C. Inter-Area LSA
- D. Link LSA



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12 What event causes an OSPF adjacency to change from 'down' to 'two way'?

- A. The router receives a link-state update in response to a link-state request.
- B. The router receives a hello packet from its neighbor that contains its own router ID in the neighbor list.
- C. The router receives a database description packet from its neighbor.
- D. The router receives a link-state acknowledgment in response to a link-state update.

Correct Answer: B

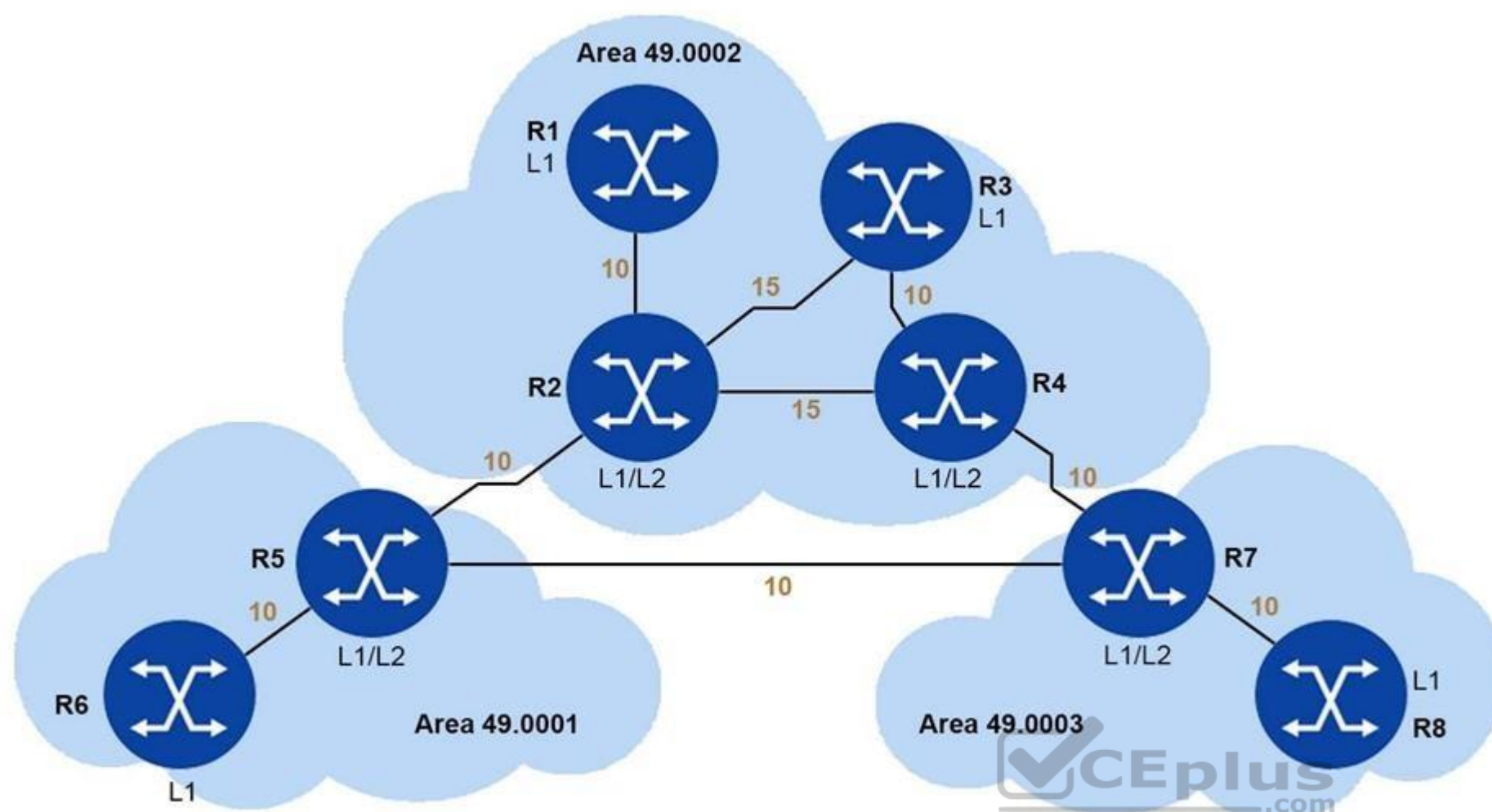
Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

Given the diagram below, what path will traffic follow from router R6 to router R3, and from router R3 to router R6, if IS-IS is the routing protocol? The numbers beside the links are the metrics for that link.



- A. Router R6 to router R3 will follow (R6-R5-R2-R3). Router R3 to router R6 will follow (R3-R2-R5-R6).
- B. Router R6 to router R3 will follow (R6-R5-R2-R3). Router R3 to router R6 will follow (R3-R4-R2-R5-R6).
- C. Router R6 to router R3 will follow (R6-R5-R2-R3). Router R3 to router R6 will follow (R3-R4-R7-R5-R6).
- D. Router R6 to router R3 will follow (R6-R5-R7-R4-R3). Router R3 to router R6 will follow (R3-R4-R7-R5-R6).

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Given the contents of the Router LSA, which of the following best describes the local topology of the router?

```
*A:R2# show router ospf database 10.10.10.3 detail
```

```
=====
OSPF Link State Database (Type : All) (Detailed)
=====
```

```
-----
Router LSA for Area 0.0.0.0
-----
```

Area Id	: 0.0.0.0	Adv Router Id	: 10.10.10.3
Link State Id	: 10.10.10.3 (168430083)		
LSA Type	: Router		
Sequence No	: 0x80000009	Checksum	: 0x9a03
Age	: 617	Length	: 72
Options	: E		
Flags	: None	Link Count	: 4
Link Type (1)	: Transit Network		
DR Rtr Id (1)	: 1.1.1.6	I/F Address (1)	: 1.1.1.1
No of TOS (1)	: 0	Metric-0 (1)	: 100
Link Type (2)	: Stub Network		
Network. (2)	: 10.10.10.3	Mask (2)	: 255.255.255.255
No of TOS (2)	: 0	Metric-0 (2)	: 0
Link Type (3)	: Point To Point		
Nbr Rtr Id (3)	: 10.10.10.4	I/F Address (3)	: 10.3.4.3
No of TOS (3)	: 0	Metric-0 (3)	: 50
Link Type (4)	: Stub Network		
Network (4)	: 10.3.4.0	Mask (4)	: 255.255.255.0
No of TOS (4)	: 0	Metric-0 (4)	: 50

- A. The router has a system interface, one point-to-point interface and one virtual link.
- B. The router has a system interface, one passive interface, one point-to-point interface and one virtual link.
- C. The router has a system interface, one point-to-point interface and one broadcast interface.
- D. The router has a system interface, one passive interface, one point-to-point interface and one broadcast interface.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Which router is the backup designated router for the broadcast network?


```
*A:R2# show router ospf database 1.1.1.1 detail
```

```
=====
OSPF Link State Database (Type : All) (Detailed)
=====
-----
Network LSA for Area 0.0.0.0
-----
Area Id           : 0.0.0.0           Adv Router Id    : 10.10.10.2
Link State Id     : 1.1.1.1 (16843009)
LSA Type          : Network
Sequence No       : 0x80000002        Checksum         : 0x3991
Age               : 97                 Length           : 36
Options           : E
Network Mask      : 255.255.255.0      No of Adj Rtrs   : 3
Router Id (1)     : 10.10.10.2         Router Id (2)    : 10.10.10.3
Router Id (3)     : 10.10.10.6
=====
```



- A. 10.10.10.2 B. 10.10.10.3
- C. 10.10.10.6
- D. There is not enough information given to determine the backup designated router.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Given the output shown, which router is the ASBR in this network?

R6# show router ospf database

```
=====
OSPF Link State Database (Type : All)
=====
```

Type	Area Id	Link State Id	Adv Rtr Id	Age	Sequence	Cksum
Router	0.0.0.0	10.10.10.2	10.10.10.2	2	0x8000000c	0xb616
Router	0.0.0.0	10.10.10.3	10.10.10.3	473	0x80000005	0xbedd
Router	0.0.0.0	10.10.10.4	10.10.10.4	5	0x80000006	0xd789
Router	0.0.0.0	10.10.10.6	10.10.10.6	476	0x80000005	0x233a
Network	0.0.0.0	10.2.4.4	10.10.10.4	4	0x80000001	0x28b9
Network	0.0.0.0	1.1.1.6	10.10.10.6	472	0x80000002	0xdce5
AS Ext	n/a	192.168.1.0	10.10.10.4	36	0x80000001	0x271e
AS Ext	n/a	192.168.2.0	10.10.10.4	36	0x80000001	0x1c28

```
-----
No. of LSAs: 8
=====
```

- A. 10.10.10.2
- B. 10.10.10.3
- C. 10.10.10.4
- D. 10.10.10.6
- E. There is no ASBR configured in the network.



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17 Which of the following about Type 4 LSAs is FALSE?

- A. A Type 4 LSA is not generated in a single area AS.
- B. A Type 4 LSA is generated by the ABRs of the area that contains the ASBR.
- C. A Type 4 LSA advertises the external networks connected to the ASBR.
- D. A Type 4 LSA is not flooded in the area that contains the ASBR.

Correct Answer: C

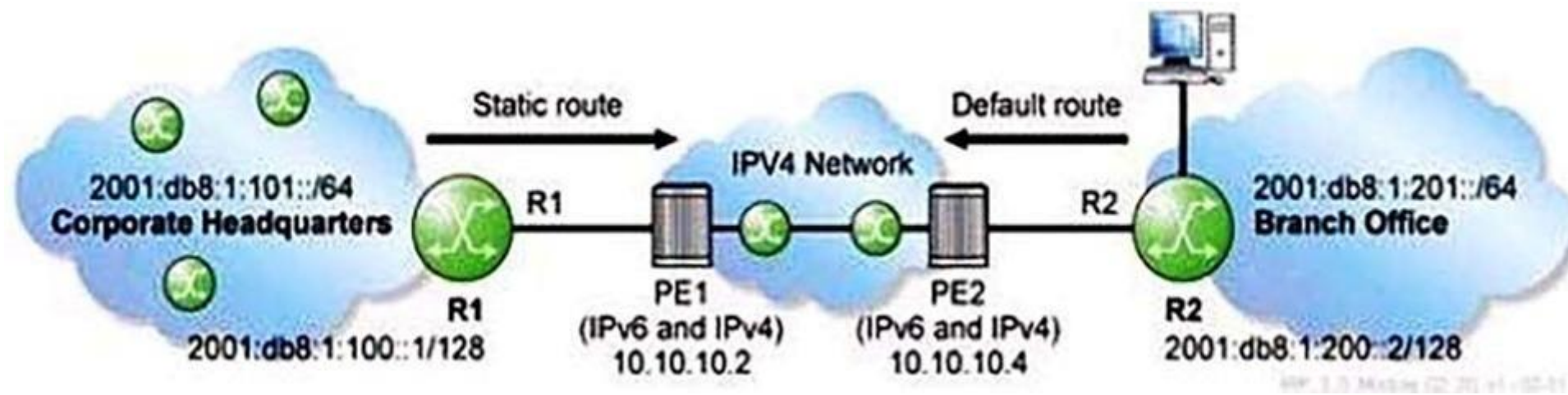
Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

A service provider is deploying a 6over4 tunnel to connect a customer's branch office IPv6 network to the corporate headquarters as shown in the exhibit. Which command is used to create a default route on PE2 for the branch office network?



- A. configure router static-route 0.0.0.0/0 indirect 10.10.10.2
- B. configure router static-route 0.0.0.0/0 indirect 2001:DB8:l:100::l
- C. configure router static-route ::/0 indirect 10.10.10.2
- D. configure router static-route ::/0 indirect 2001:DB8:l:100::l
- E. configure router static-route ::/0 indirect 2001:DB8:l:101::l

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19 Which of the following is the correct IPv6 interface identifier that is derived from the MAC address 00-16-4D-13-5C-AE?

- A. 0016:4DFF:FE13:5CAE
- B. 0016:4DFF:0013:5CAE
- C. 0216:4DFF:FE13:5CAE
- D. 0216:4DFF:0013:5CAEE. 0016:4DFE:0013:5CAE

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20 Which of the following statements regarding the IS-IS CSNP is FALSE?

- A. CSNPs are used to maintain consistency in the Link-State database.
- B. CSNPs are advertised before an adjacency is formed with another router.
- C. There are two types of CSNPs: Level 1 and Level 2.
- D. The CSNP lists the LSPs in the router's database

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21 Which of the following best describes downstream on demand label distribution?

- A. An LSR answers requests for label mappings immediately, without waiting for a label mapping from the next-hop.
- B. An LSR advertises label mappings to all peers for which it might be a next-hop for a given FEC.
- C. An LSR distributes a label mapping for a FEC when it has been requested to do so.
- D. An LSR propagates a label mapping downstream for a FEC, only if it has a label mapping for the FEC's next-hop.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22 Which of the following describes constraint-based routing?

- A. A mechanism that implements opaque LSAs.
- B. A mechanism that computes routes based on specified requirements.
- C. A mechanism that ensures the IGP best route is used.
- D. A mechanism that enables LDP signaling to use a route other than the IGP best route.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 23 Which of the following is true when the implicit null is implemented?

- A. The penultimate router will pop the top label from the packets.
- B. The eLER will receive packets with a top label value of 3.
- C. The eLER will receive packets with a top label value of 0.
- D. The penultimate router will always receive unlabeled packets.

Correct Answer: A

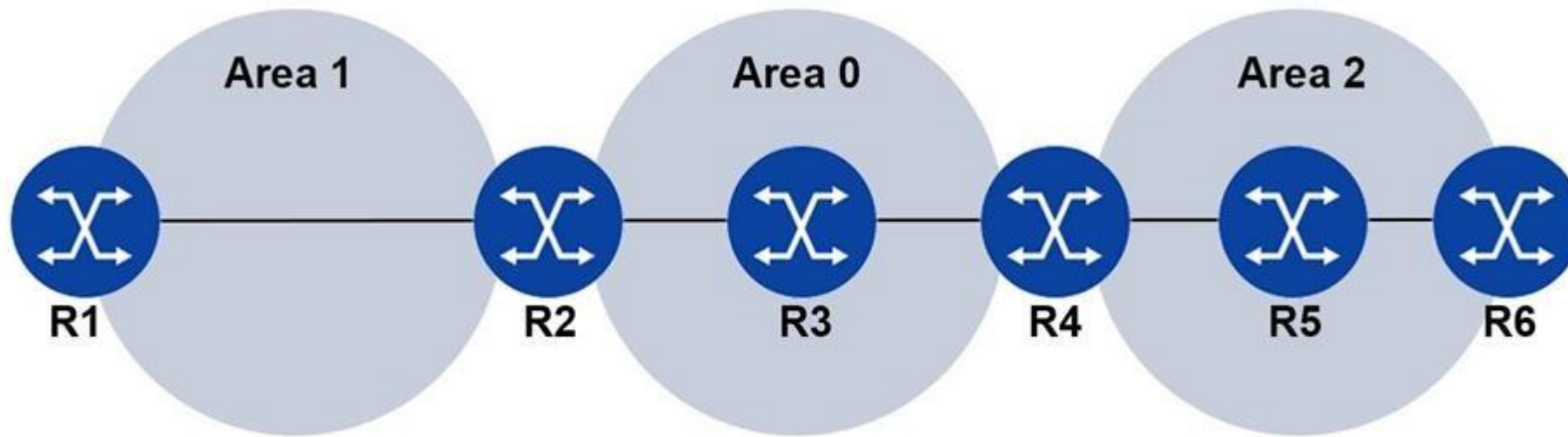
Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

An LDP-over-RSVP tunnel is established between routers R1 and R6. There is a VPN service running between routers R1 and R6. Which of the following is TRUE?



- A. Router R3 swaps both the RSVP-TE LSP label and LDP transport label received with new labels.
- B. Router R3 swaps the VPN service label received with a new label.
- C. Router R3 uses the same RSVP-TE LSP label as the one received from router R2.
- D. Router R3 uses the same LDP transport label as the one received from router R2.

Correct Answer: D

Section: (none)

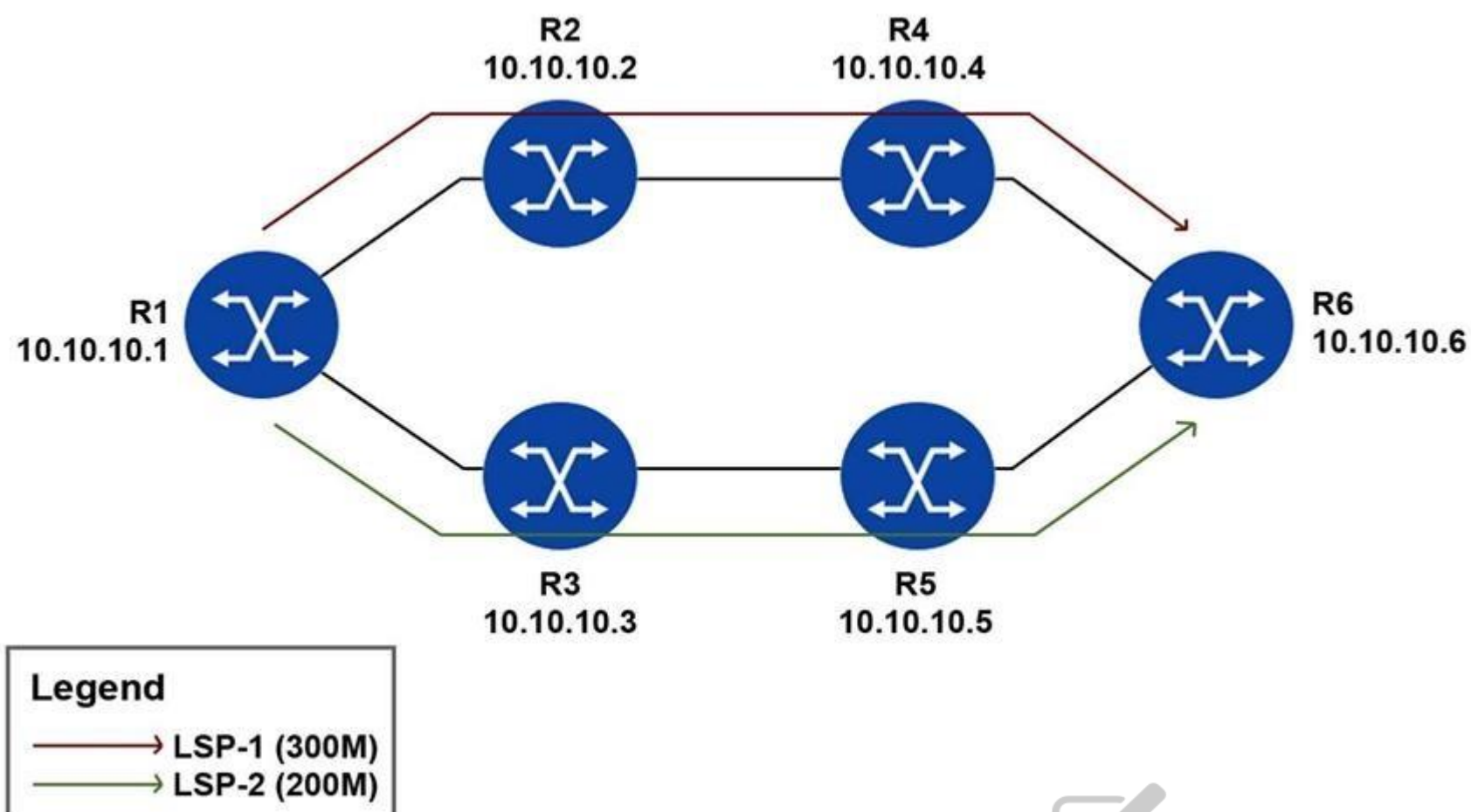
Explanation

Explanation/Reference:



QUESTION 25

Initially, all links along the path R1-R2-R4-R6 have 400Mbps unreserved bandwidth and all links along the path R1-R3-R5-R6 have 600Mbps unreserved bandwidth. Shared Explicit reservation style is used and Make-Before-Break is enabled. Both fully loose LSPs have been signaled as shown. Later, the configured bandwidth for LSP-1 is changed to 500Mbps. Which of the following is TRUE?



- A. After a new path for LSP-1 is established on R1-R3-R5-R6, the old path is torn down.
- B. After the old path for LSP-1 is torn down, the new path is established on R1-R3-R5-R6.
- C. LSP-1 will stay on R1-R2-R4-R6 because there is enough bandwidth on the existing path.
- D. LSP-1 will be torn down after CSPF fails to find a new path.

Correct Answer: C

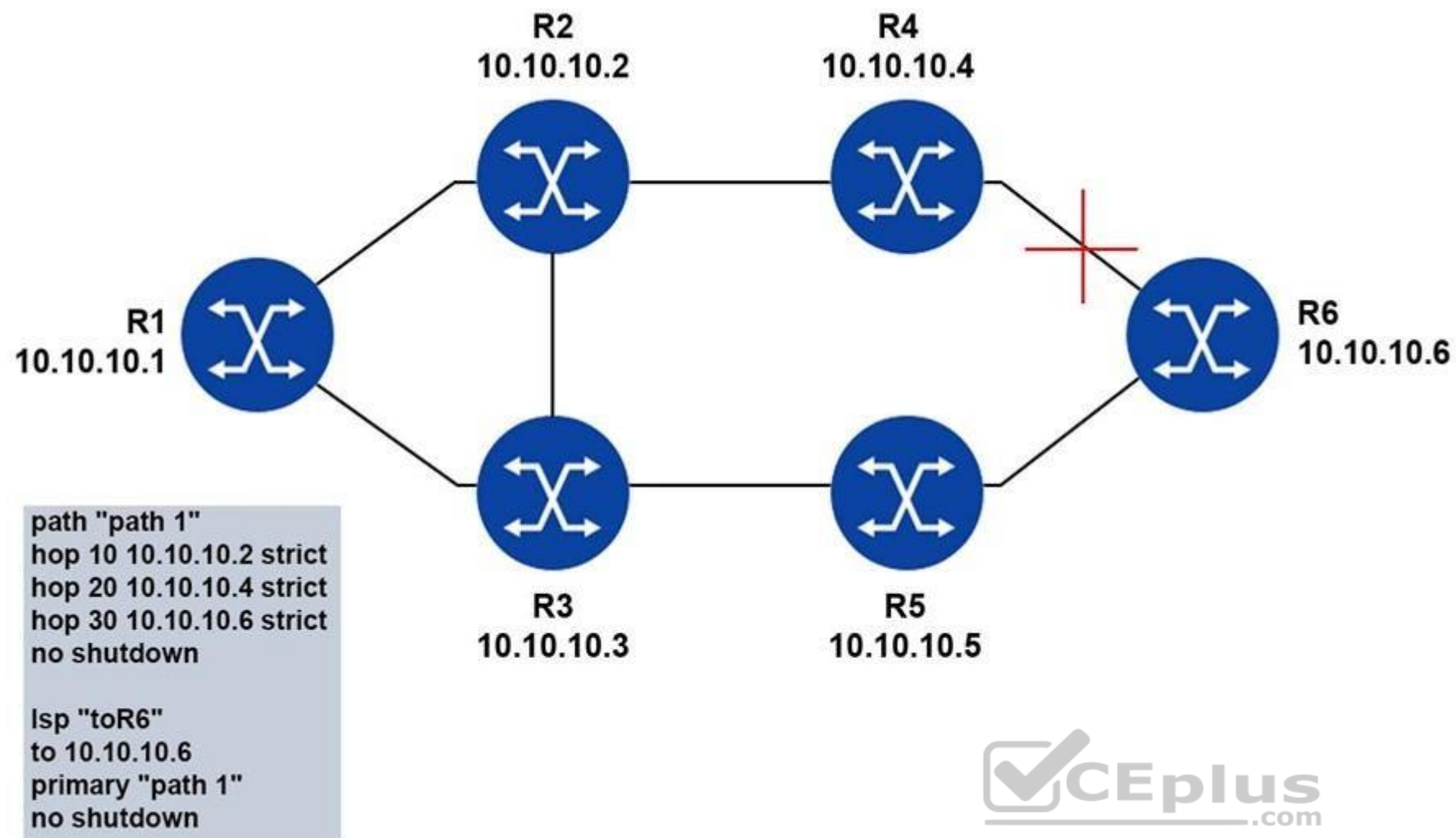
Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

The link between routers R4 and R6 is down before the LSP is signaled. CSPF is not enabled on the LSP. Which of the following conditions is TRUE?



- A. Router R1 sends a PATH message and router R4 sends back a PATH Error message.
- B. Router R1 does not send a PATH message because it detects an error.
- C. Router R1 sends a PATH message and router R4 sends back a PATH Tear message.
- D. Router R1 sends a PATH message and router R4 sends back a RESV Error message.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27 Which of the following is a benefit of traffic engineering?

- A. It avoids packet loss based on QoS classification.
- B. It optimizes resources by making use of redundant links.
- C. It automatically selects paths based on traffic congestion.
- D. It always selects the best path based on standard IGP path calculation.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Given the output below, which of the following is FALSE?

```
*A:SRC_R1# show router ldp bindings active
=====
LDP Bindings (IPv4 LSR ID 10.10.10.1:0)
(IPv6 LSR ID ::[0])
=====
:
=====
LDP IPv4 Prefix Bindings (Active)
=====
```

Prefix EgrNextHop	Op EgrIf/LspId	IngLbl	EgrLbl
10.10.10.1/32 --	Pop --	262141	--
10.10.10.2/32 10.1.2.2	Push 1/1/1	--	262143
10.10.10.2/32 10.1.2.2	Swap 1/1/1	262143	262143
10.10.10.3/32 10.1.3.3	Push 1/1/3	--	262143
10.10.10.3/32 10.1.3.3	Swap 1/1/3	262142	262143
10.10.10.4/32 10.1.2.2	Push 1/1/1	--	262139
10.10.10.4/32 10.1.3.3	Push 1/1/3	--	262139
10.10.10.4/32 10.1.2.2	Swap 1/1/1	262139	262139
10.10.10.4/32 10.1.3.3	Swap 1/1/3	262139	262139

```
-----
No. of IPv4 Prefix Active Bindings: 9
=====
```

- A. A packet arriving with label 262142 will be forwarded out interface 1/1/3 with label 262143.
- B. The router is an egress router for FEC 10.10.10.1/32.
- C. There are multiple LSPs to reach FEC 10.10.10.4/32.
- D. The router's system address is 10.10.10.3/32.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

This policy is applied as an LDP export policy. In addition to the FECs learned from its neighbors, which FECs will appear in this router's LIB?

```
configure router policy-options
begin
prefix-list "officeA_subnet"
    prefix 192.168.1.0/30 exact
exit
policy-statement "LDP_export"
    entry 10
        from
            prefix-list "officeA_subnet"
        exit
        action reject
    exit
    entry 20
        from
            protocol direct
        exit
        action accept
    exit
exit
exit
commit
```



- A. All FECs with a prefix of 192.168.1.0/30.
- B. Local FECs with a prefix of 192.168.1.0/30.
- C. All FECs excluding 192.168.1.0/30.
- D. Local FECs excluding 192.168.1.0/30.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30 Which of the following LDP message categories is UDP-based?

- A. Notification
- B. Session

- C. Discovery
- D. Advertisement

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31 Facility fast reroute with node protection is enabled for an LSP, which of the following is FALSE?

- A. Each PLR signals a bypass tunnel that avoids the next-hop downstream router.
- B. When a failure occurs, the PLR pushes an additional label onto the label stack.
- C. No bypass tunnel is established if the PLR cannot provide node protection.
- D. The head-end router sets the local protection desired flag in the session attribute object.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32 Which of the following about MPLS shortcuts for BGP on a Nokia 7750 SR is FALSE?

- A. BGP-sourced traffic is label switched through the core.
- B. Both LDP and RSVP-TE based tunnels can be used.
- C. IGP forwarding is used by default if no MPLS tunnel is available.
- D. CSPF is required for MPLS shortcuts to work.



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33 Which of the following about RSVP refresh reduction on a Nokia 7750 SR is FALSE?

- A. RSVP generates a summary refresh message for each LSP.
- B. Message-IDs replace individual refresh messages.
- C. An LSP state change causes the Message-ID to be incremented.
- D. RSVP refresh reduction is disabled by default.

Correct Answer: A

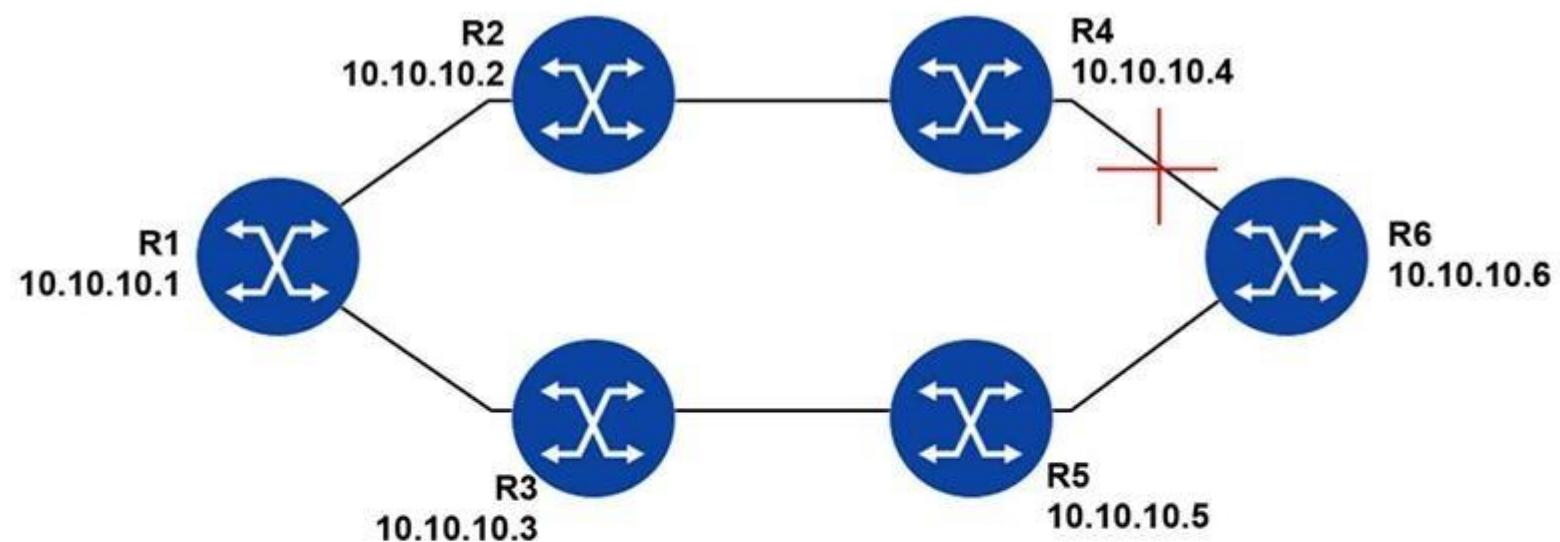
Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

When the link between routers R4 and R6 goes down, what will router R1 do?



```
path "Primary_Path"
  hop 10 10.10.10.2 strict
  hop 10 10.10.10.4 strict
  no shutdown
exit
path "Secondary_Path"
  hop 10 10.10.10.3 strict
  no shutdown
exit
```

```
lsp "LSP-toR6"
  to 10.10.10.6
  cspf
  primary "Primary_Path"
  exit
  secondary "Secondary_Path"
  standby
  exit
  no shutdown
```



- A. Router R1 will signal the secondary path and switch traffic to it.
- B. Router R1 will discard traffic because the secondary path is not a fully strict path.
- C. Router R1 will switch traffic to the secondary path right after it is notified of the link error.
- D. Router R1 will discard traffic until a new IGP route to router R6 is re-calculated.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

LSP "toR4" requests fast reroute protection. What could be done to remove the Failure Code shown?

```
*A:SRC_R1# show router mpls lsp "toR4" path detail
=====
MPLS LSP toR4 Path (Detail)
=====
:
-----
LSP toR4 Path loose
-----
LSP Name       : toR4
Path LSP ID    : 50176
From           : 10.10.10.1      To           : 10.10.10.4
Admin State    : Up              Oper State    : Down
Path Name      : loose           Path Type     : Primary
Path Admin     : Up              Path Oper     : Down
Out Interface   : n/a            Out Label     : n/a
Path Up Time    : 0d 00:00:00    Path Down Time : 0d 00:00:12
Retry Limit     : 0              Retry Timer    : 30 sec
Retry Attempt   : 1              Next Retry In  : 22 sec
BFD Template    : None           BFD Ping Interval : 60
BFD Enable      : False
:
Adaptive        : Enabled         Oper Metric    : N/A
Preference      : n/a
Path Trans      : 0               CSPF Queries   : 0
Failure Code     : looseHopsInFRRLsp
Failure Node     : 10.10.10.1
Explicit Hops    :
    No Hops Specified
Actual Hops      :
    No Hops Specified
Resignal Eligible: False
Last Resignal    : n/a           CSPF Metric    : N/A
=====
```

- A. The LSP must be enabled with CSPF on the head-end router.
- B. Fast reroute must be enabled on the downstream routers.
- C. A mixture of strict and loose hops must be defined in the primary path.
- D. CSPF and fast reroute must be enabled on all downstream routers.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

Which of the following about CAC is FALSE?

- A. CAC is used when the LSP path has not been computed by CSPF.
- B. CAC is used when the LSP path has been computed by CSPF.
- C. CAC is used to perform a bandwidth check on each egress interface of the downstream router.
- D. CAC is used to perform a bandwidth check based on the router's LSDB.

Correct Answer: D

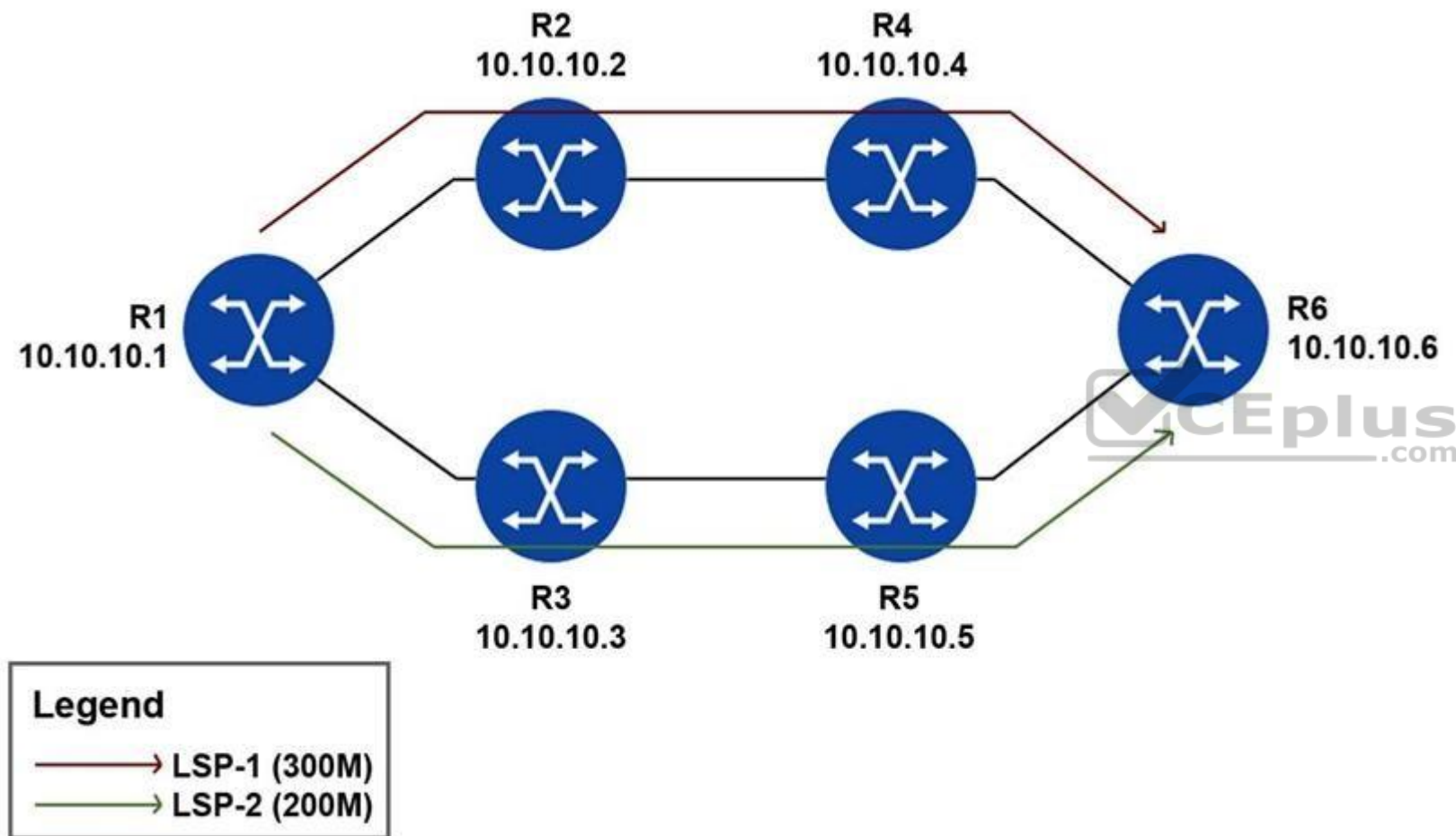
Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

All links have 1Gbps unreserved bandwidth initially and all LSPs have the least-fill feature enabled. After the two LSPs have been signaled as shown, two additional LSPs are configured. LSP-3 is signaled first with bandwidth of 300Mbps. LSP-4 is signaled after with bandwidth of 400Mbps. Which paths will CSPF choose for LSP-3 and LSP-4?



- A. LSP-3 takes R1-R3-R5-R6 and LSP-4 takes R1-R2-R4-R6.
- B. LSP-3 takes R1-R2-R4-R6 and LSP-4 takes R1-R3-R5-R6.
- C. Both LSP-3 and LSP-4 take R1-R3-R5-R6.
- D. Both LSP-3 and LSP-4 take R1-R2-R4-R6.
- E. CSPF randomly chooses one of the equal cost paths for the two LSPs.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38 Which of the following about IS-IS Traffic Engineering on a Nokia 7750 SR is FALSE?

- A. Traffic engineering information is carried in the extended TLVs.
- B. Traffic engineering must be enabled on all IP/MPLS routers along the LSP path.
- C. Traffic engineering information is stored in the opaque database.
- D. Traffic engineering is required for constraint-based LSPs.

Correct Answer: C

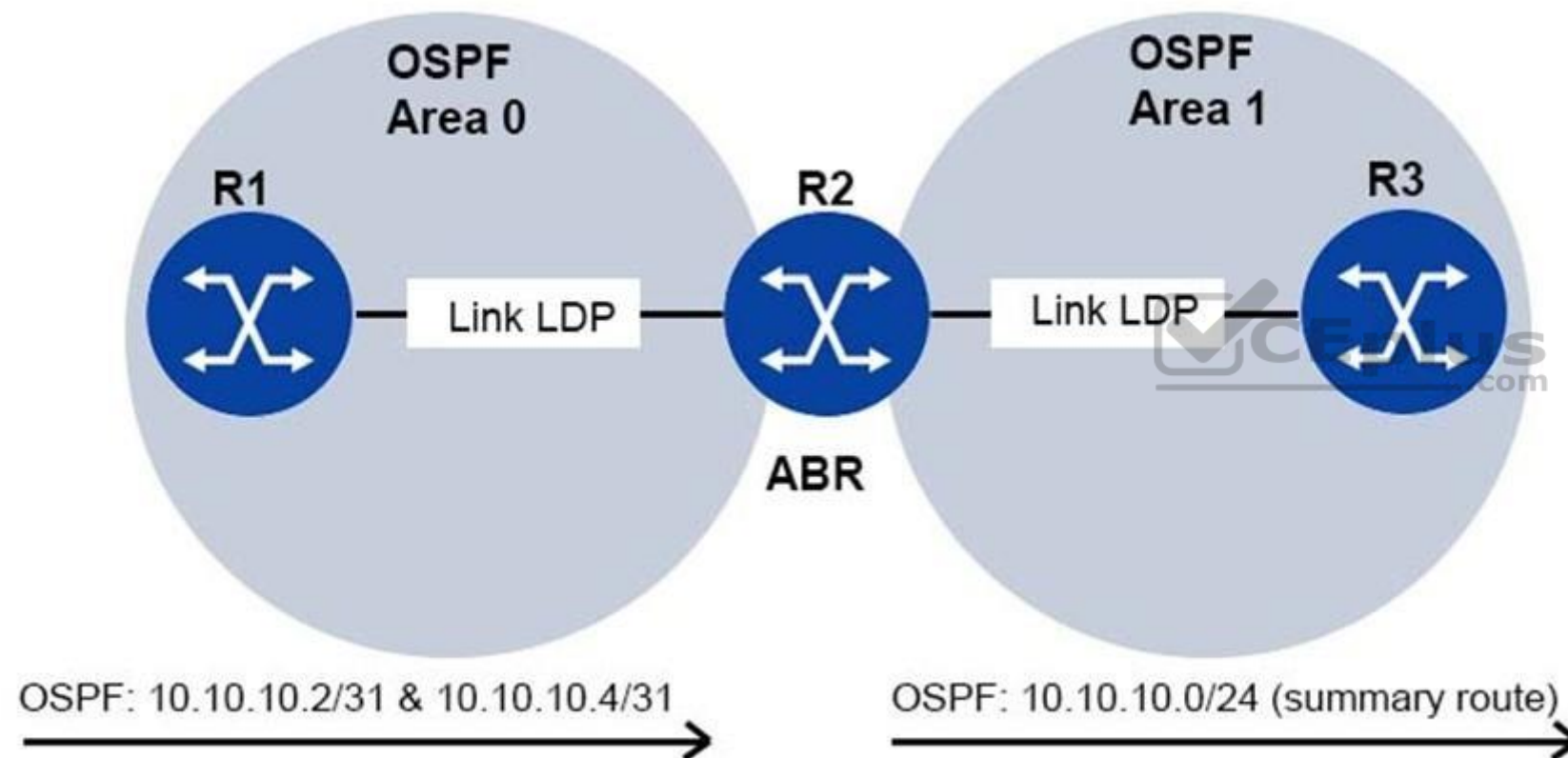
Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

Router R2 advertises an OSPF summary route 10.10.10.0/24 into Area 1. Router R3 receives labels for individual FECs 10.10.10.2/32 and 10.10.10.4/32. These two FECs are installed in router R3's LIB but not in the LFIB. What needs to be done on router R3 to install these labels into its LFIB?



- A. Disable route summarization on router R3.
- B. Enable LDP aggregate prefix match.
- C. Create an import policy to accept 10.10.10.2/32 and 10.10.10.4/32.
- D. Disable LDP exact match on 10.10.10.2/32 and 10.10.10.4/32.

Correct Answer: B

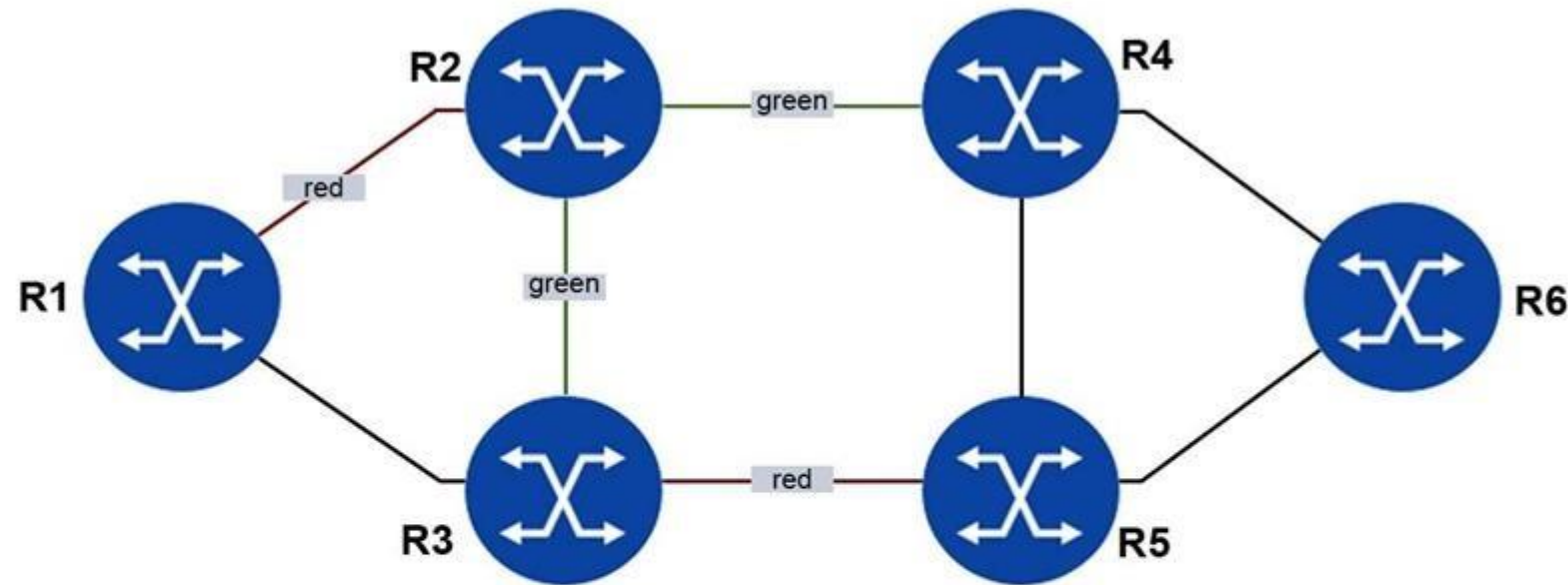
Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

All links are of equal cost. A CSPF enabled LSP is configured on routers R1 to R6. Its fully loose primary path is configured with an “exclude green” statement and the fully loose secondary path is configured with an “exclude red” statement. Which paths will be taken by this LSP?



Legend

- “red” admin group
- “green” admin group



- A. The primary path will take R1-R3-R2-R4-R6. The secondary path will take R1-R3-R5-R6.
- B. The primary path will take R1-R3-R5-R4-R6. The secondary path will take R1-R3-R2-R4-R5-R6.
- C. The primary path will take R1-R3-R5-R6. The secondary path will take R1-R3-R2-R4-R5-R6.
- D. The primary path will take R1-R3-R5-R6. The secondary path will take R1-R3-R2-R4-R6.

Correct Answer: D

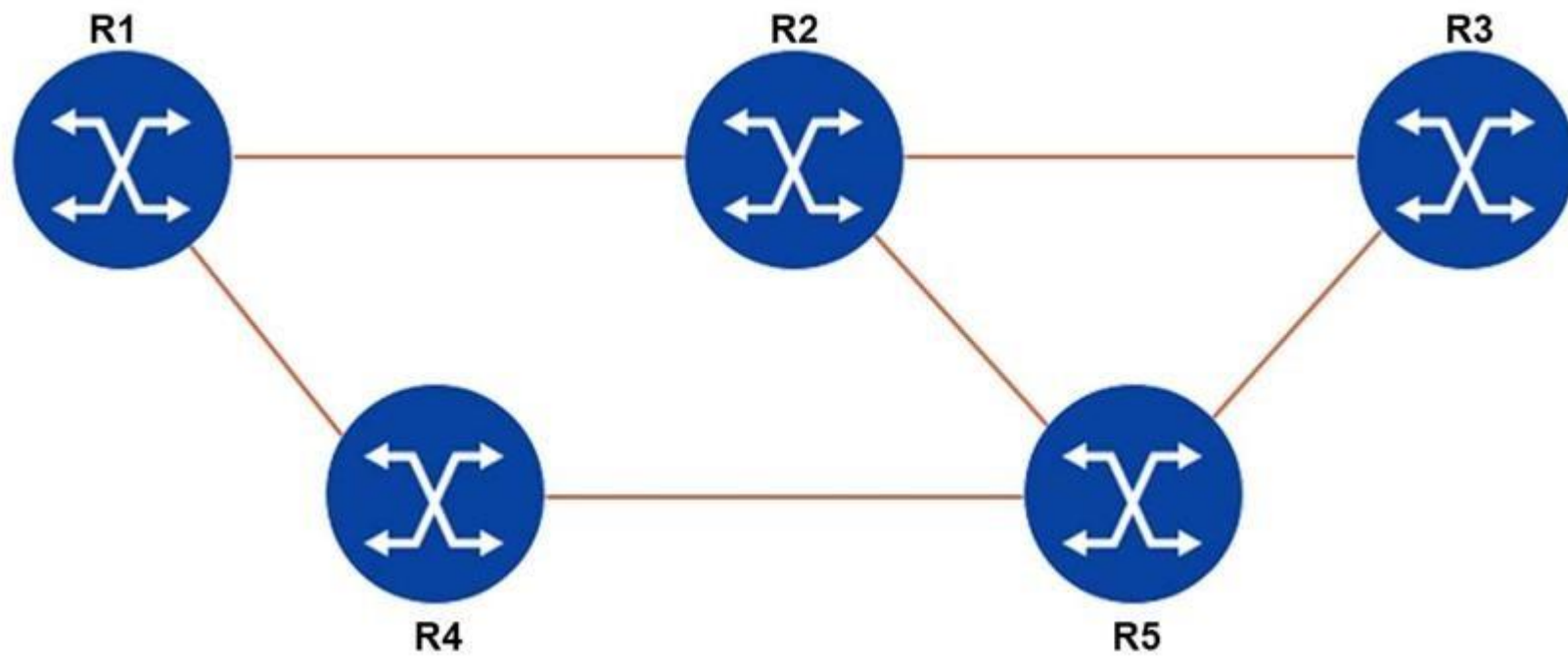
Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

Two LSPs traverse the path R1-R2-R3. Both LSPs are configured with facility fast reroute and link protection. When router R1 is the PLR, which router becomes the Merge Point (MP) for this LSP?



- A. Router R1
- B. Router R2
- C. Router R3
- D. Router R4
- E. Router R5

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 42

Why might router R2 have a Link LDP session to R1 (10.10.10.1:0) but not to R3 (10.10.10.3:0)?

```
*A:SRC_R2# show router ldp session
```

```
=====
```

```
LDP IPv4 Sessions
```

```
=====
```

Peer LDP Id	Adj Type	State	Msg Sent	Msg Recv	Up Time
10.10.10.1:0	Link	Established	26	26	0d 00:00:59

```
-----
```

```
No. of IPv4 Sessions: 1
```

```
=====
```

- A. MPLS is not configured on R2.
- B. R2 does not have a route to 10.10.10.3.
- C. LDP is not configured on R3's interface to R2.
- D. The targeted session is not configured on R2.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43 Which of the following messages is NOT used in T-LDP operation?

- A. Hello message
- B. Init message
- C. Keepalive message
- D. Label Mapping message
- E. ACK message

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44 What labels are encapsulated in the tunnels used by a 6PE deployment?

- A. The inner label is the IPv4 Explicit Null. The outer label is the MPLS transport label.
- B. The inner label is an MPLS transport label. The outer label is the IPv4 Explicit Null.
- C. The inner label is the IPv6 Explicit Null. The outer label is an MPLS transport label.
- D. The inner label is an MPLS transport label. The outer label is the IPv6 Explicit Null.

Correct Answer: C

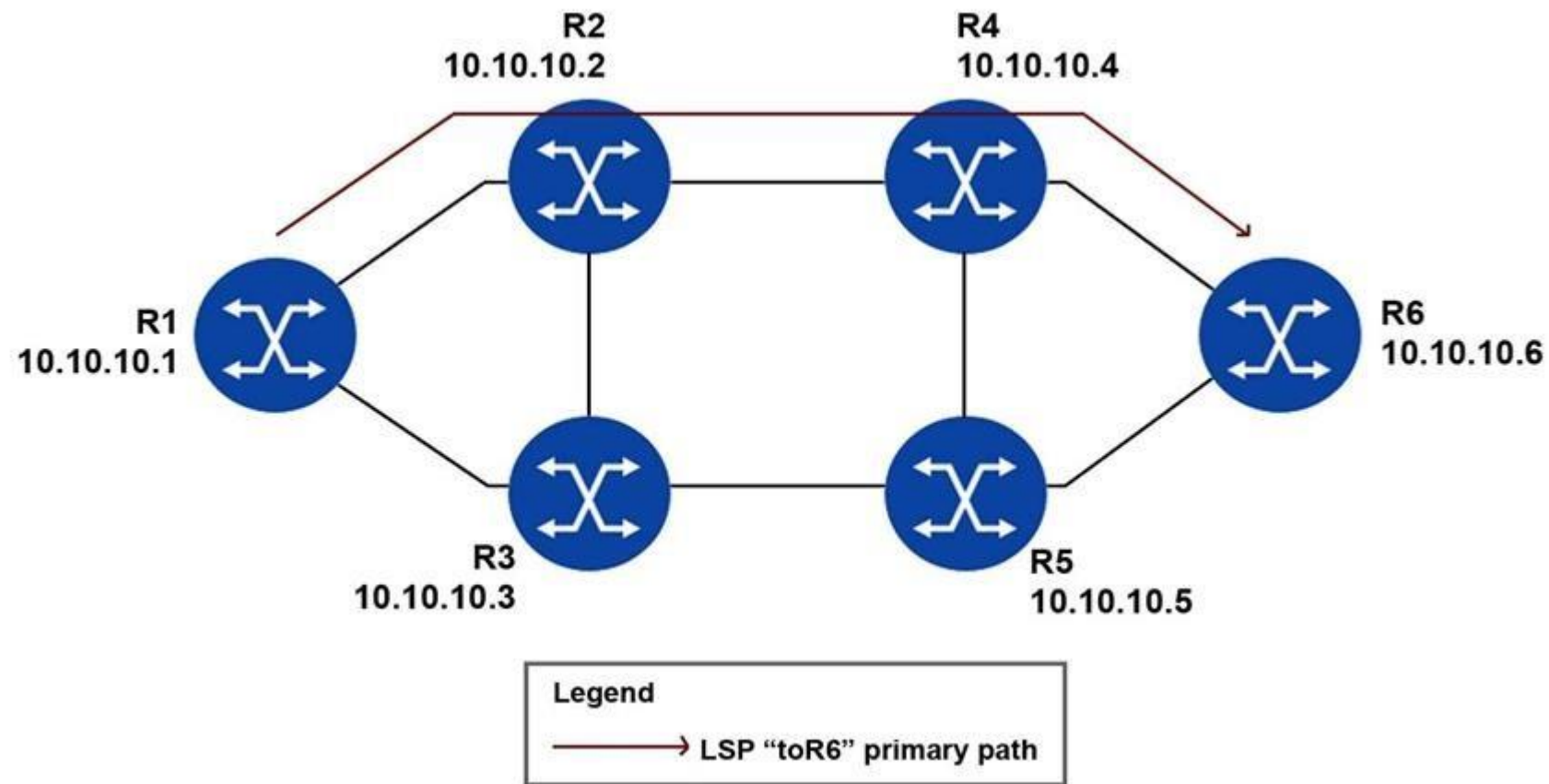
Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

The LSP “toR6” is configured with a fully strict path on a Nokia 7750 SR. Which of the following configurations is required to enable fast reroute for this LSP?



- A. Enable fast-reroute on all routers along the path, R1, R2, R4, and R6.
- B. Enable both link-protection and node-protection on router R1.
- C. Enable fast-reroute with either one-to-one or facility mode on this LSP.
- D. Enable link-protection only on router R4.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

An LSP is configured with a fully explicit path. An LSR receives the first PATH message for this LSP. Which of the following is NOT performed by the LSR?

- A. The LSR regenerates and forwards a new PATH message.
- B. The LSR stores the PATH message in the PSB.
- C. The LSR forwards the PATH message based on ERO.
- D. The LSR looks up the PATH message's destination IP address in the FIB.

Correct Answer: C

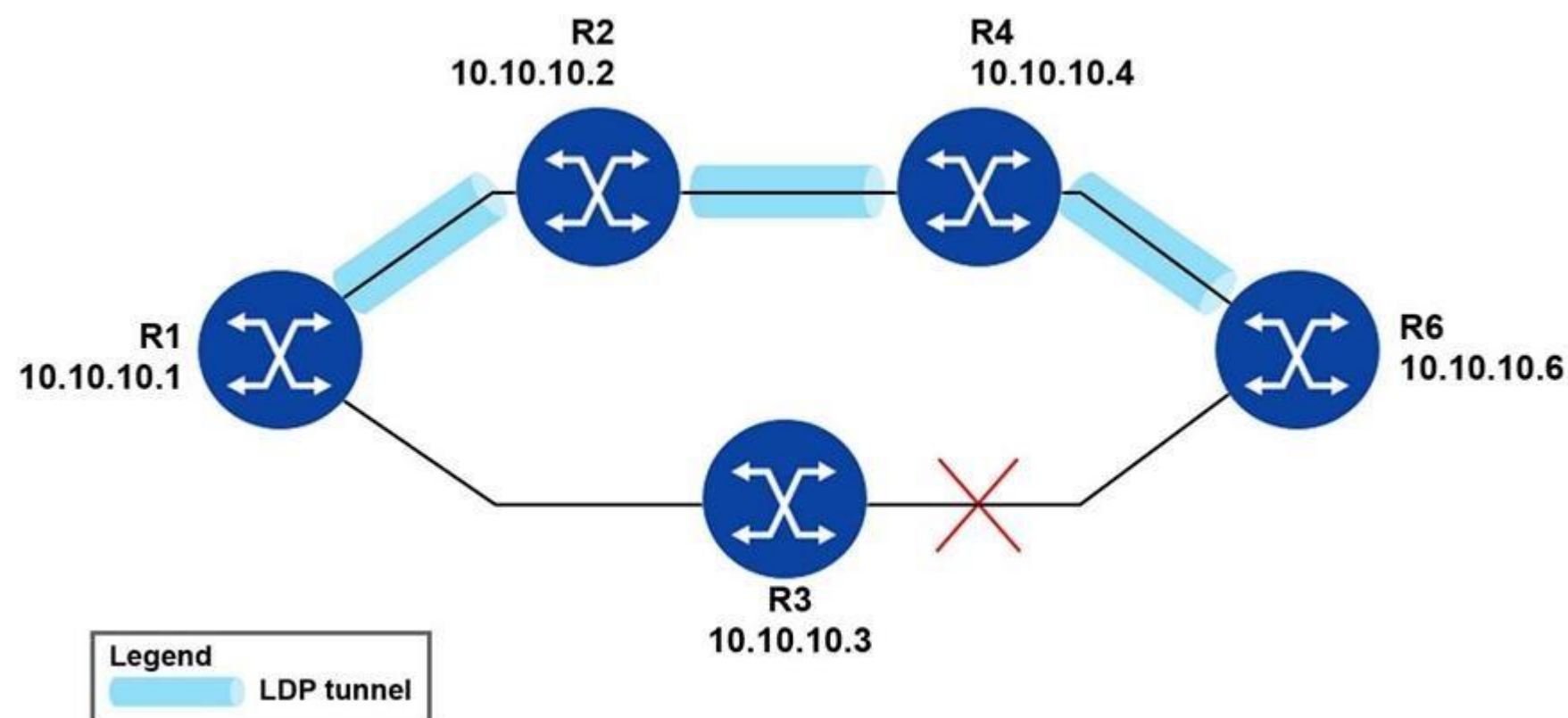
Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

An LDP tunnel is established on R1-R2-R4-R6 because the link between routers R3 and R6 is down. With the LDP-IGP Sync feature enabled and after the link is restored, which of the following is FALSE?



- A. Router R3 starts the LDP-Sync timer after recovering the LDP session on R3-R6.
- B. Router R1 continues to use R1-R2-R4-R6 until the LDP-Sync feature is disabled.
- C. Router R3 advertises the maximum metric for the link to router R6.
- D. Router R1 receives a label from router R3 after the LDP session is established on R3-R6.



Correct Answer: B

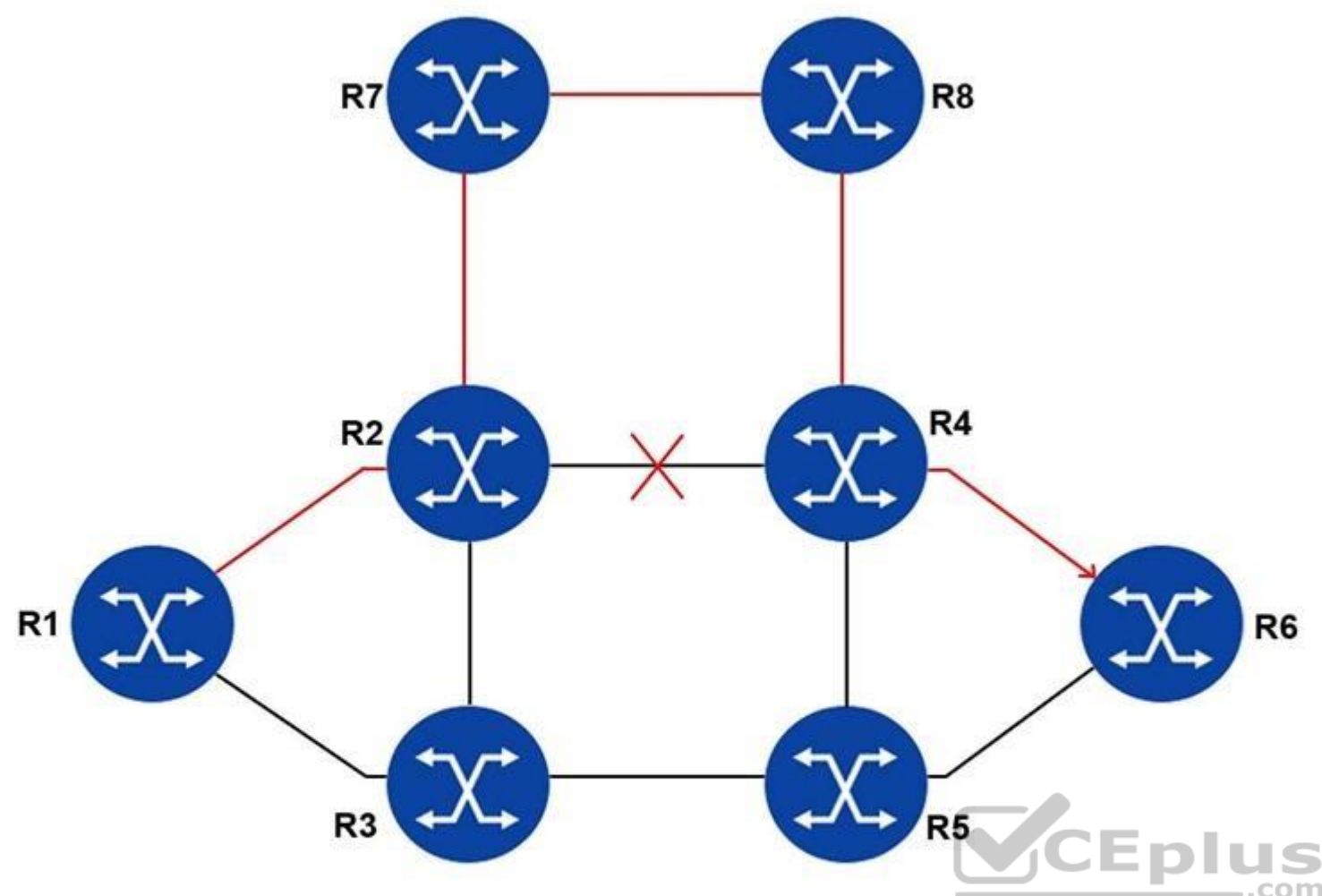
Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

A fully loose LSP "toR6" is enabled with FRR protection. All links have the same cost. After the link between R2 and R4 goes down, FRR protection repairs the LSP and traffic traverses on R1-R2-R7-R8-R4-R6. By default, which of the following about this LSP on a Nokia 7750 SR is FALSE?



Legend

→ LSP "toR6" primary FRR path

- A. The LSP will switch to R1-R3-R5-R6 after the resignal timer expires.
- B. The old primary path and its detours are torn down after the new primary path is established.
- C. CSPF must be enabled to find a more optimal path.
- D. The traffic is switched to R1-R3-R5-R6 in an MBB fashion.

Correct Answer: A

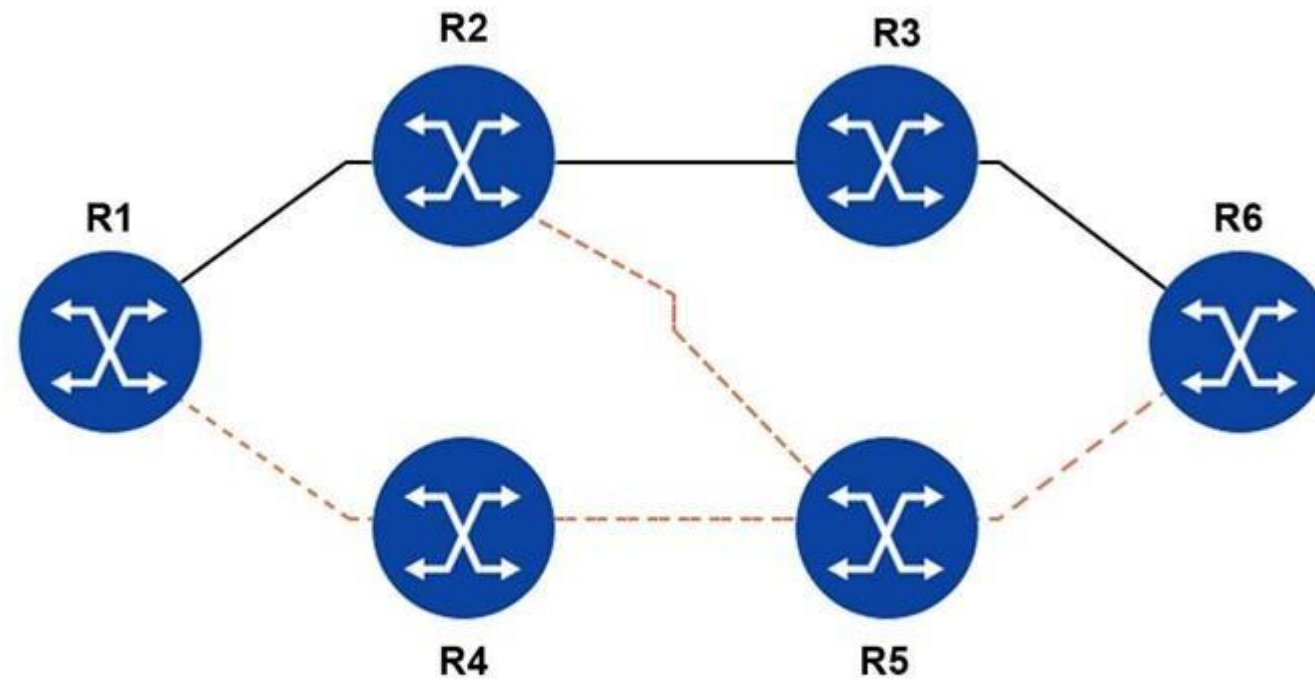
Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

RSVP session state for LSP 1 has timed out on router R3. Which of the following actions will router R3 initiate to clear the RSVP session?



Legend

—— LSP 1 to R6



- A. Send a PATH Tear message toward router R6.
- B. Send a PATH Tear message toward router R1.
- C. Send a PATH Error message toward router R6.
- D. Send a PATH Error message toward router R1.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50 If a Nokia 7750 SR is an iLER operating in pipe mode, which of the following regarding the TC field (EXP bits) is TRUE?

- A. The TC field is set based on the value of the DSCP field inside the customer packet.
- B. The TC field is set to a specific value via explicit administrative configuration.
- C. The TC field is set to a system generated random number.
- D. The TC field is set by the eLER.

Correct Answer: B

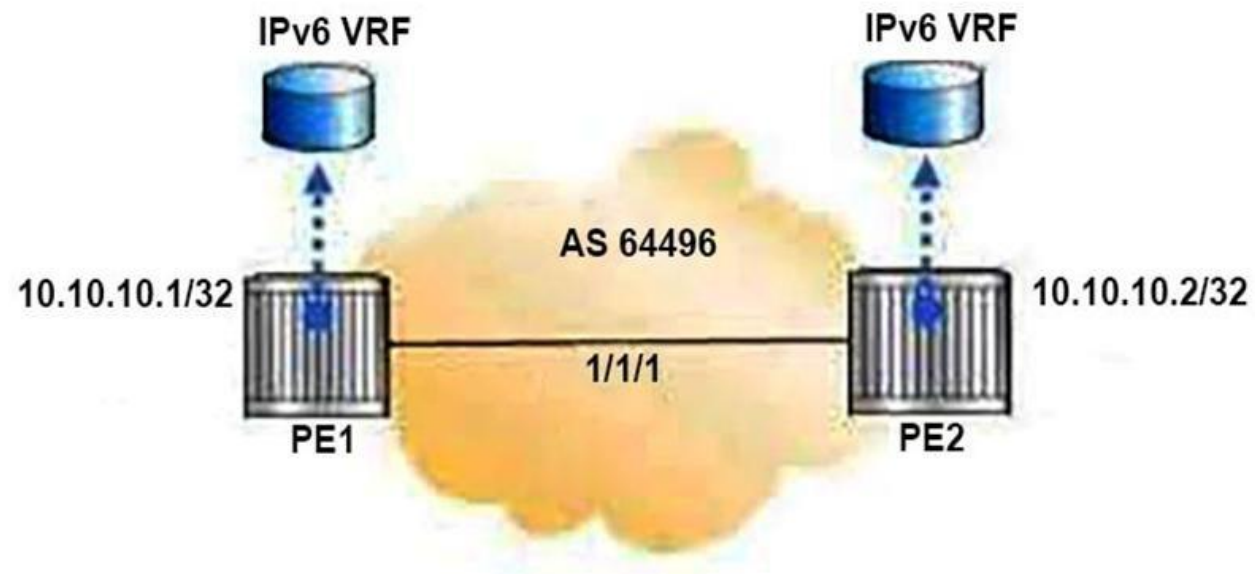
Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

The two PEs are providing 6VPE and IPv4 VPRNs. The core network is IPv4/MPLS. Which of the following is the BGP family configuration for the MP-BGP on the PEs?



- A. family ipv4 ipv6
- B. family vpn-ipv4 ipv6
- C. family vpn-ipv4 vpn-ipv6
- D. family ipv6 vpn-ipv6

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 52 Which of the following about the Nokia 7750 SR sdp-ping is TRUE?

- A. It tests the IGP reachability of the far-end IP address of an SDP.
- B. It tests that the MTU settings of a service are correct.
- C. It tests in-band, uni-directional or round-trip connectivity of SDPs.
- D. It tests the reachability of hosts connected to an SDP.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

Based on this output from PE router R1, how many other PEs are participating in the VPRN?

```
R1# show router 100 fib 1
```

FIB Display

Prefix	NextHop	Protocol
10.1.5.0/24	10.1.5.0 (R1-R5)	LOCAL
10.6.4.0/24	10.10.10.4 (VPRN Label:131065 Transport:LDP)	BGP_VPN
10.10.10.5/32	10.1.5.5 Indirect (R1-R5)	BGP
10.10.10.6/32	10.10.10.4 (VPRN Label:131065 Transport:LDP)	BGP_VPN
192.168.10.0/24	10.1.5.5 Indirect (R1-R5)	BGP
192.168.20.0/24	10.10.10.4 (VPRN Label:131065 Transport:LDP)	BGP_VPN
Total Entries : 6		



- A. 0
- B. 1
- C. 2
- D. 3

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54 Which of the following best describes the flooding of traffic on a PE when unknown traffic is received on a mesh SDP?

- A. Traffic is flooded to all SAPs in the service.
- B. Traffic is flooded to all SAPs and spoke SDPs in the service.
- C. Traffic is flooded to all SAPs and mesh SDPs in the service.
- D. Traffic is flooded to all SAPs, spoke SDPs, and mesh SDPs in the service.
- E. The traffic is not flooded.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55 FRF.5 is a standard that describes which of the following requirements?

- A. ATM to Frame Relay translation.
- B. Frame Relay to Ethernet translation.
- C. ATM tunneling over a Frame Relay core network.
- D. Frame Relay tunneling over an ATM core network.

Correct Answer: D

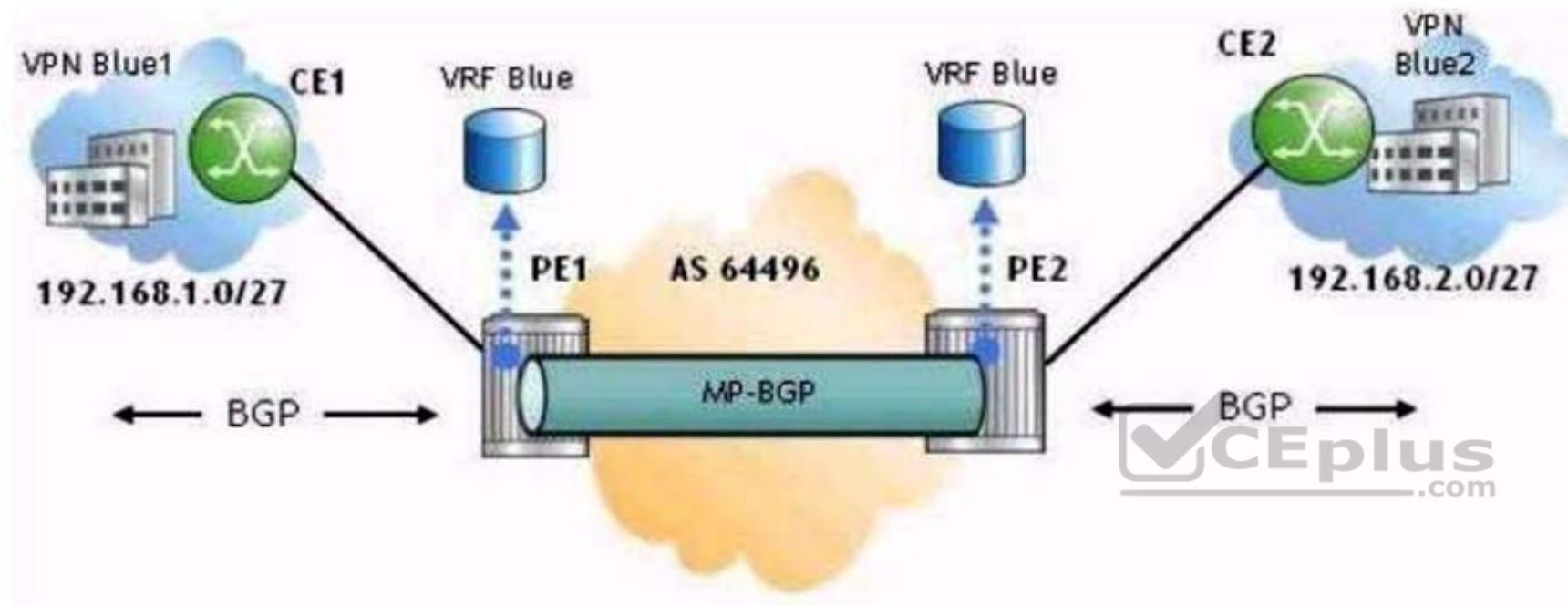
Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

Assuming CE1 exports its system address using BGP, is a routing policy required on PE1 to advertise CE1's system address to PE2?



- A. Yes. A routing policy is required to advertise routes between PE routers in a VPRN regardless of the CE-PE routing.
- B. Yes. A routing policy is required in this case because BGP is used as the PE-CE routing protocol.
- C. No, a routing policy is not required: By default, the Nokia 7750 SR will advertise all VPRN routes between PE routers.
- D. No, a routing policy is not required on PE1, but an import policy is required on PE2.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

When configuring distributed services across a network, it is considered best practice to configure which of the following parameters as globally significant?

- A. Customer ID and SAP ID.
- B. Customer ID and Service ID.
- C. SAP ID and Service ID.
- D. SDP ID and Service ID.
- E. SDP ID and SAP ID.
- F. SDP ID and VC ID.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58 An Ethernet frame is received by SAP 1/1/1:33. Which of the following is FALSE?

- A. If the frame has a VLAN tag of 33, it is accepted.
- B. If the frame has a tag other than 33, it is dropped.
- C. If the frame is untagged, a VLAN tag of 33 is added, and the frame is accepted.
- D. If the frame is untagged, it is dropped.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59 Which of the following about VPRN VRF tables is FALSE?

- A. A PE uses the same VRF table for all the VPRN services on it.
- B. A PE uses a VRF to maintain forwarding information.
- C. Information for VRFs can be advertised between PEs by MP-BGP.
- D. A PE uses a VRF to route traffic to CEs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

An SDP using MPLS encapsulation is configured for an E-pipe service. The network port on the Nokia 7750 SR used by the SDP has an MTU of 8000. What is the SDP path MTU?

- A. 7958
- B. 7978
- C. 8022
- D. 8042

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

On a Nokia 7750 SR, why must the MTU be explicitly set when configuring an IES spoke termination to a VPLS?

- A. By default, a VPLS signals an MTU based on the network port.
- B. By default, an IES sets its ip-mtu to the VC MTU of the VPLS.
- C. By default, an IES uses an MTU value based on its SAP.
- D. By default, an IES uses an MTU based on the network port.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62 Which of the following SAPs can be used so that only untagged frames and frames with a VLAN tag of 0 are accepted?

- A. sap 1/1/1:0
- B. Requires both sap 1/1/1:0 and sap 1/1/1:*
- C. sap 1/1/1:0-4096
- D. sap 1/1/1:*

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63 Which of the following about configuring a distributed E-pipe service is TRUE ?

- A. The VC ID on the mesh SDP must be explicitly configured.
- B. The VC ID on the spoke SDP must be explicitly configured.
- C. The VC ID on the mesh SDP does not have to be explicitly configured and it will use the service id.
- D. The VC ID on the spoke SDP does not have to be explicitly configured and it will use the service id.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

This is output from router R4. Service 333 is a VPLS. Why does peer 10.10.10.1 not have an EgrLbl?

```
R4# show router ldp bindings
<_output omitted_>
```

```
=====
LDP Service FEC 128 Bindings
=====
```

Type	VCId	SvcId	SDPId	Peer	IngLbl	EgrLbl	LMTU	RMTU
V-Eth	333	333	1	10.10.10.1	131061U	--	1500	0
V-Eth	333	333	2	10.10.10.2	131064U	131068	1500	1500
V-Eth	333	333	3	10.10.10.3	131063U	131063	1500	1500

```
-----
No. of VC Labels: 3
=====
```

- A. The SDP to 10.10.10.1 on router R4 is shutdown.
- B. Router R4 has not sent a label to router R1 (10.10.10.1) yet.
- C. 10.10.10.1 has a different service MTU set.
- D. 10.10.10.1 has not sent a label to router R4 yet.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65 Which of the following SAPs will forward all tagged and untagged frames on the port?

- A. sap 1/1/1
- B. sap 1/1/1:*0
- C. sap 1/1/1:0.*
- D. sap 1/1/1:0

Correct Answer: A

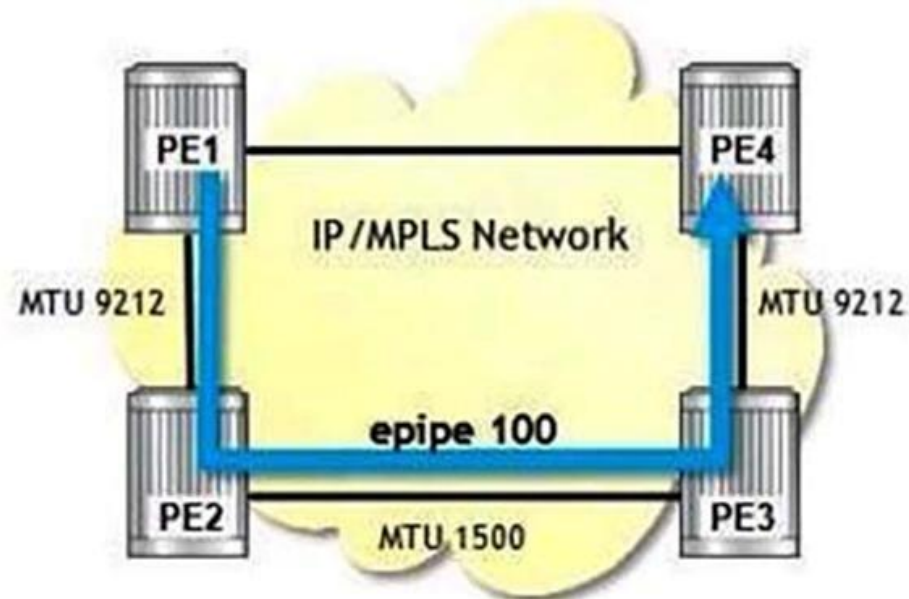
Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

E-pipe 100 is using an SDP (4) with an LSP that uses the path shown (PE1-PE2-PE3-PE4). Which of the following is the expected output from the OAM command?



```
PE1# oam sdp-mtu 4 size-inc 1475 1500 step 1
<output omitted>
???
```

PE1# oam sdp-mtu 4 size-inc 1475 1500 step 1

Size	Sent	Response
1475	.	Success
1476	.	Success
1477	.	Success
1478	.	Success
1479	...	Request Timeout

Maximum Response Size: 1478

PE1# oam sdp-mtu 4 size-inc 1475 1500 step 1

Size	Sent	Response
1475	.	Success
1476	.	Success
1477	.	Success
< ... omitted etc. >		
1492	.	Success
1493	...	Request Timeout

Maximum Response Size: 1492

A.



B.

PE1# oam sdp-mtu 4 size-inc 1475 1500 step 1

Size	Sent	Response
1475	.	Success
1476	.	Success
1477	.	Success
< ... omitted etc. >		
1500	.	Success
Maximum Response Size: 1500		

PE1# oam sdp-mtu 4 size-inc 1475 1500 step 1

Size	Sent	Response
1475	.	Success
1476	.	Success
1477	.	Success
< ... omitted etc. >		
1500	.	Success
Maximum Response Size: 9212		

C.



D.

Correct Answer: A

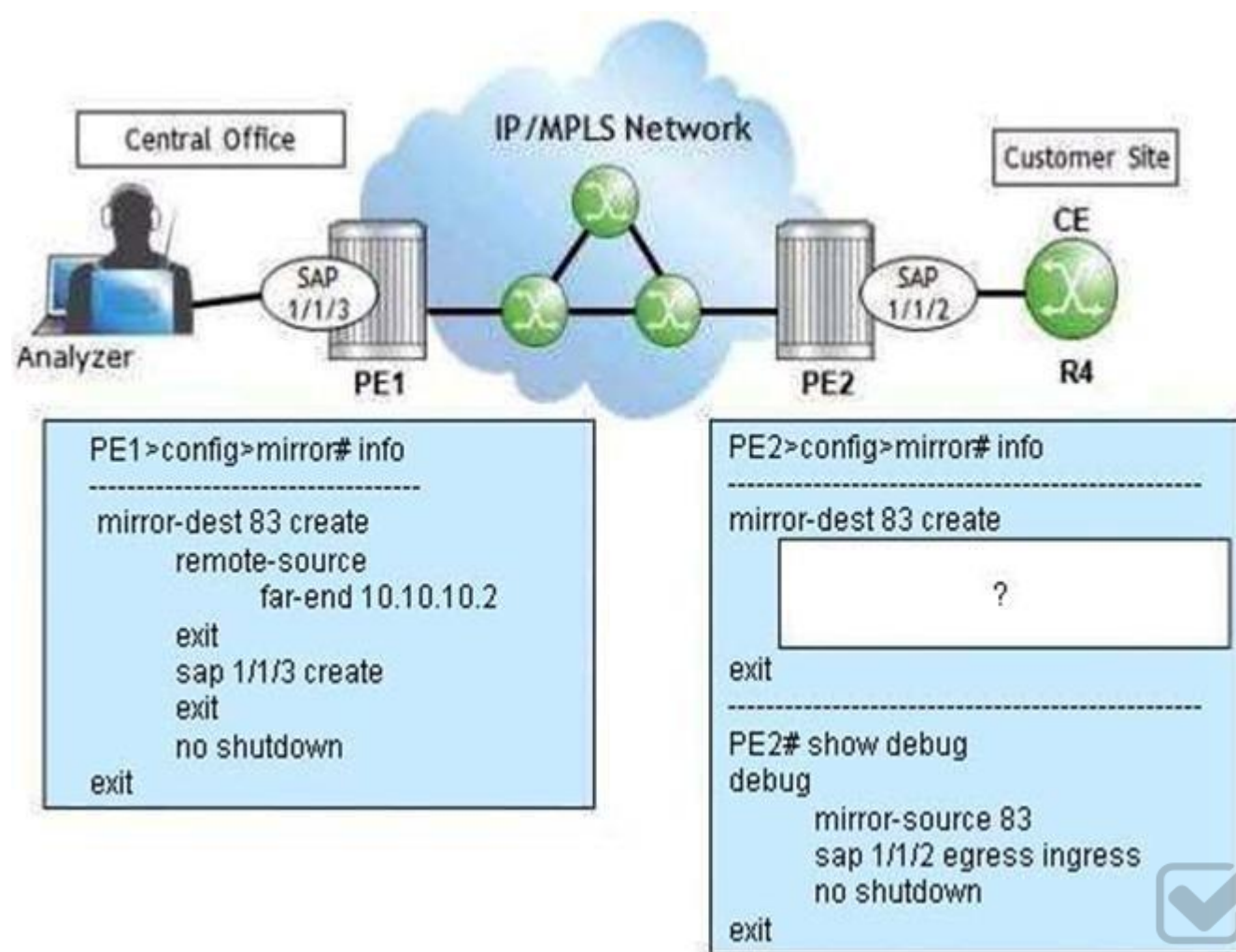
Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

PE1 and PE2 are Nokia 7750 SRs. Which of the following is the missing configuration required on PE2 to complete the mirror?



- A. sap 1/1/3 create
no shutdown
exit
- B. spoke-sdp 1:83
create sap 1/1/3
create exit
- C. remote-destination
10.10.10.1 exit
- D. spoke-sdp 1:83
create no
shutdown exit

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68 Which of the following about the BGP VPN-IPv4 address family is FALSE?

- A. When a PE router receives an IPv4 prefix from its local CE, it creates a VPN-IPv4 prefix.
- B. VPN-IPv4 allows BGP to distinguish between duplicate prefixes originating from different customers.
- C. In a VPRN, data traffic is carried in packets that have VPN-IPv4 addresses.
- D. VPN-IPv4 addresses are only present within the service provider network.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69 The SAP 1/1/1:2.3 receives an Ethernet frame with outer VLAN tag 2 and inner VLAN tag 5. Which of the following is TRUE?

- A. The matching outer tag is removed, and the frame is forwarded.
- B. The inner tag is removed, and the frame is forwarded.
- C. The inner tag is changed to match the SAP, and the frame is forwarded.
- D. The frame is dropped.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70 Which of the following regarding 6VPE is FALSE?

- A. 6VPE is a tunneling technology that makes use of MPLS tunnels to transport IPv6 prefixes over an IPv4 infrastructure.
- B. Customers connected to 6VPE can run IPv6 or IPv4.
- C. On a PE router, if the MP-BGP next hop is an IPv4 address, a mapped IPv6-compliant address will be used.
- D. 6VPE implements its own VPN-IPv6 address family and is a replacement for MP-BGP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference: