4A0-101 Q&As

Alcatel-Lucent Interior Routing Protocols and High Availability

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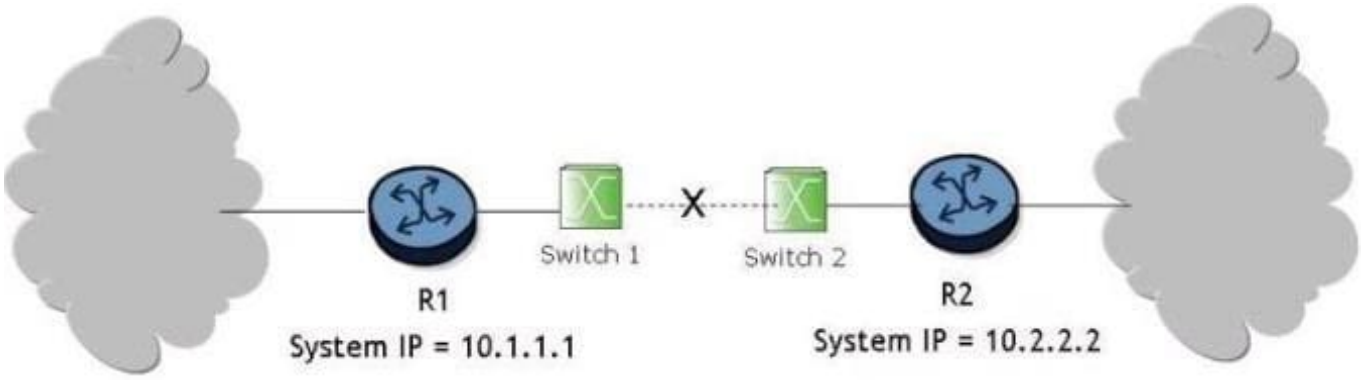
QUESTION 1

Click on the exhibit.



What triggers convergence of the routing protocol when the link between switch 1 and switch 2 goes down?

A. Convergence is triggered when the adjacency between routers R1 and R2 drops as a result of hello timeouts.

B. Convergence is triggered when the physical interfaces between routers R1 and R2 go down.

C. Convergence will not be triggered because switches cannot run routing protocols between them.

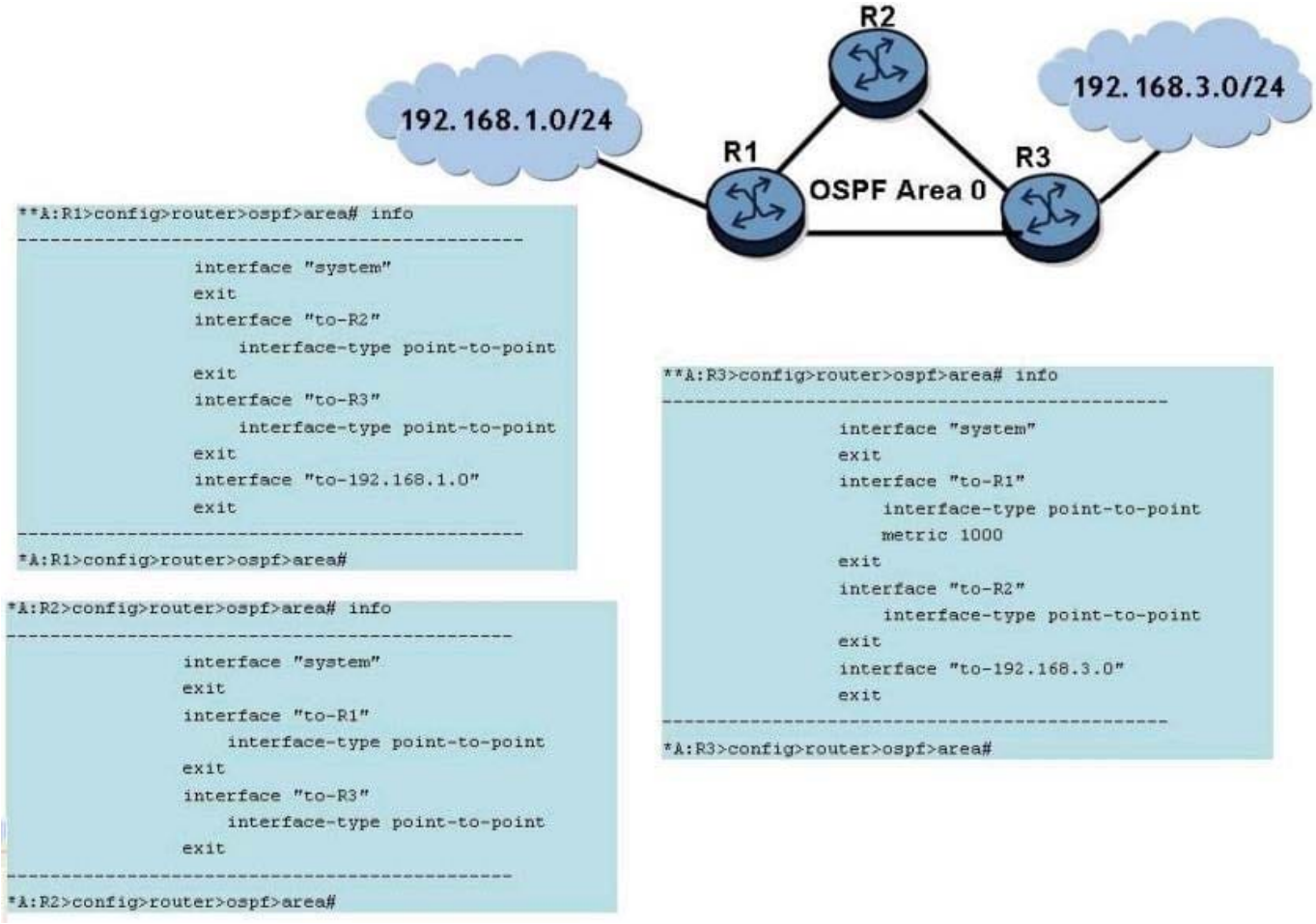
D. Convergence is triggered when the switches notify the routers about the link-state info.

E. Convergence is triggered when an LSA is sent from router R1 to router R2 to indicate that the link is down.

Correct Answer: A

QUESTION 2

Click on the exhibit.



All ports in the network are operationally up and have a speed of 1Gbps. Which of the following is TRUE?

A. Data traffic from network 192.168.1.0/24 to 192.168.3.0/24 will be forwarded through router R2.

B. Data traffic from network 192.168 3.0/24 to 192.168.1.0/24 will be forwarded from router R3 directly to router R1.

C. The system interface of routers R1 and R3 must be included into OSPF for traffic to flow between the 192.168.1.0/24 and 192.168.3.0/24 networks.

D. The OSPF adjacency between router R1 and router R3 is operationally up.

Correct Answer: D

QUESTION 3

Click on the exhibit.

```
Use this one for 5.2.a
-------------------------------------------------------------------------
???  LSA for Area 0.0.0.0
-------------------------------------------------------------------------
Area Id           : 0.0.0.0              Adv Router Id     : 10.10.10.4
Link State Id     : 0.0.0.0 (0)
LSA Type          : ???
Sequence No       : 0x8000002e           Checksum          : 0x9744
Age               : 40                   Length            : 56
Options           : --R--EV6
Flags             :                      Link Count        : 2
Link Type (1)     : Transit Network      DR Rtr ID (1)     : 10.10.10.4
I/F Index (1)     : 2                    DR I/F Index (1)  : 2
Metric (1)        : 100
Link Type (2)     : P2P Link             Nbr Rtr ID (2)    : 10.10.10.3
I/F Index (2)     : 3                    Nbr I/F Index (2): 3
Metric (2)        : 50
```

What type of OSPFv3 LSA is shown?

A. Router LSA

B. Network LSA

C. Intra-Area Prefix LSA

D. Link LSA

Correct Answer: A

QUESTION 4

In which of the following types of areas does an OSPF router not set the E bit in its Type 1 LSA?

A. Not so stubby area

B. Stub area

C. Backbone area

D. Normal area

Correct Answer: B

QUESTION 5

Click on the exhibit.

```
*A:R3>config>router>isis# show router route-table 10.10.10.1/32

===============================================================================
Route Table (Router: Base)
===============================================================================
Dest Prefix[Flags]                                Type    Proto    Age         Pref
      Next Hop[Interface Name]                                      Metric
-------------------------------------------------------------------------------
10.10.10.1/32                                     Remote  ISIS     00h00m01s   15
       10.1.3.1                                                        10
-------------------------------------------------------------------------------
No. of Routes: 1
Flags: L = LFA nexthop available    B = BGP backup route available
       n = Number of times nexthop is repeated
===============================================================================
```

The operator of an IS-IS network wishes to have link metrics dynamically calculated in the same manner as OSPF. The router with system address 10.10.10.1 is one hop away on a 1 Gbps link Which of the following is correct?

A. The router is correctly configured.

B. A reference-bandwidth is not configured on the router.

C. A reference-bandwidth is configured on the router but wide-metrics is not.

D. The interface metric must be manually configured to 100.

Correct Answer: B

QUESTION 6

Which of the following is an optional parameter when configuring IS-IS protocol on a router?

A. Configure IS-IS interfaces

B. Enable IS-IS

C. Configure level capabilities

D. Specify an area address

Correct Answer: C

QUESTION 7

Given the NSAP address of 49.0012.1234.1234.1234.00, what area does the IS-IS router reside in?

A. 49.0012.1234

B. 49.0012

C. 12.1234

D. 1234

E. 49.1234

Correct Answer: B

QUESTION 8

Which of the following TLV fields is included in an IS-IS Hello packet on broadcast interfaces but not on point-to-point interfaces?

A. The area addresses TLV

B. The intermediate system neighbors TLV

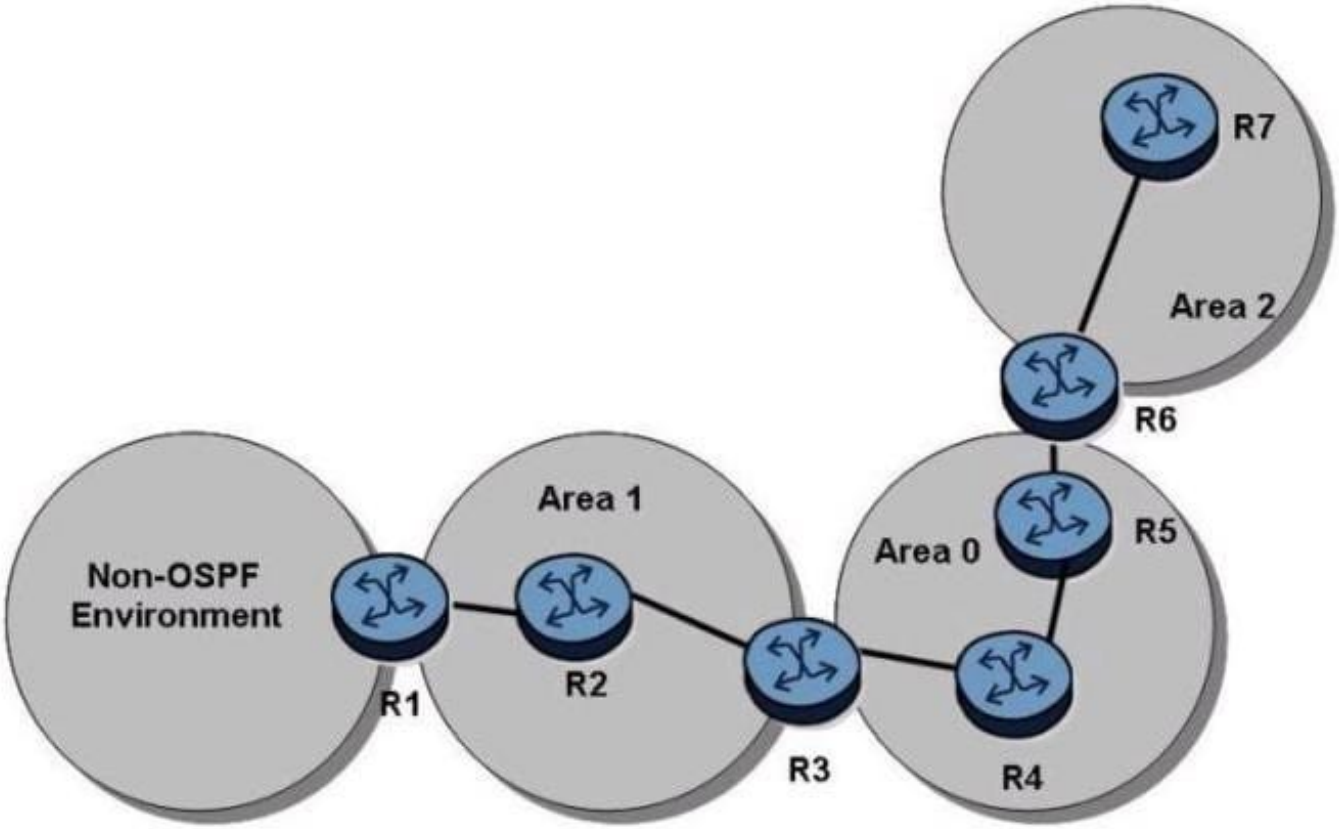
C. The IP interface address TLV

D. The authentication information TLV

Correct Answer: B

QUESTION 9

Click the exhibit button.



In the topology shown, router R1 is an ASBR configured to export external routes to OSPF. Assuming that there are no stub networks, which of the following statements regarding Type 4 LSA generation is true?

A. Router R1 generates a Type 4 LSA that is flooded to areas 0, 1, and 2.

B. Router R3 generates a Type 4 LSA that is flooded to areas 0, 1, and 2.

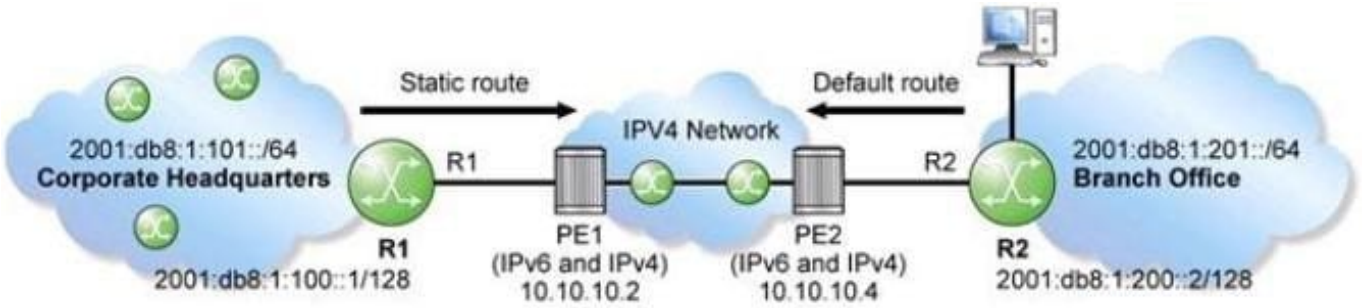
C. Router R3 generates a Type 4 LSA that is flooded to areas 0 and 2.

D. Router R3 generates a Type 4 LSA that is flooded to area 0, and router R6 generates a Type 4 LSA that is flooded to area 2.

Correct Answer: D

QUESTION 10

Click on the exhibit.



A service provider is deploying a 6 over 4 tunnel to connect a customer\\'s corporate IPv6 network to all devices at the branch office as shown in the exhibit. Which command is used to create the route to the branch office network on PE1?

A. Configure router static-route 2001:DB8:1:201::/64 indirect 10.10.10.4

B. Configure router static-route 2001:DB8:1:201:764 indirect 2001:DB8:1:200::2

C. Configure router static-route 2001:DB8:1:200::/56 indirect 10.10.10.4

D. Configure router static-route 2001:DB8:1:200:756 indirect 2001:DB8:1:200::2

Correct Answer: C

QUESTION 11

Click on the exhibit.

```
*A:R2# 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       21   0x8000001a 0xae7d
Router   0.0.0.0          10.10.10.3      10.10.10.3       42   0x80000017 0x7282
Router   0.0.0.0          10.10.10.4      10.10.10.4       39   0x80000019 0x25ab
Router   0.0.0.0          10.10.10.5      10.10.10.5       13   0x80000017 0xc1ed
Router   0.0.0.0          10.10.10.6      10.10.10.6       18   0x80000022 0xa812
Network  0.0.0.0          10.2.4.2        10.10.10.2       52   0x80000001 0x5095
Network  0.0.0.0          10.2.5.2        10.10.10.2       21   0x80000001 0x5390
Network  0.0.0.0          1.1.1.1         10.10.10.3       1920 0x80000002 0x3991
Network  0.0.0.0          10.3.4.3        10.10.10.3       43   0x80000001 0x3ea3
Network  0.0.0.0          10.5.6.6        10.10.10.6       18   0x80000001 0xcc7
-------------------------------------------------------------------------------
No. of LSAs: 10
===============================================================================
```

Given the output, which of the following is the most accurate statement about the network?

A. There are five broadcast links and there are no point-to-point links.

B. There are five broadcast links and there are five point-to-point links.

C. There are five broadcast links. It\\'s not possible to say how many point-to-point links there are.

D. It\\'s not possible to say how many broadcast or point-to-point links there are.

Correct Answer: C

QUESTION 12

What causes an adjacency to change from down to two ways?

A. When a link state update is received in response to a link state request.

B. When a router receives a Hello packet that contains its own router ID in the neighbor list from a neighbor.

C. When a router receives a database description packet from a neighbor.

D. When a link state acknowledgement is received in response to a link state update.

Correct Answer: B

QUESTION 13

Which of the following about IS-IS level hierarchies is FALSE?

A. Level 2 routers interconnect the Level 1 areas.

B. There must be a contiguous Level 2 backbone to enable routing throughout the entire network.

C. Level 1 routers send packets to the nearest L1/L2 router if the destination is in a different area

D. Level 2 routers store the Level 1 and Level 2 topology information in a single database.

Correct Answer: D

QUESTION 14

What address is used when RIPv2 uses multicast to send its updates?

A. 224.0.0.5

B. 224.0.0.6

C. 224.0.0.9

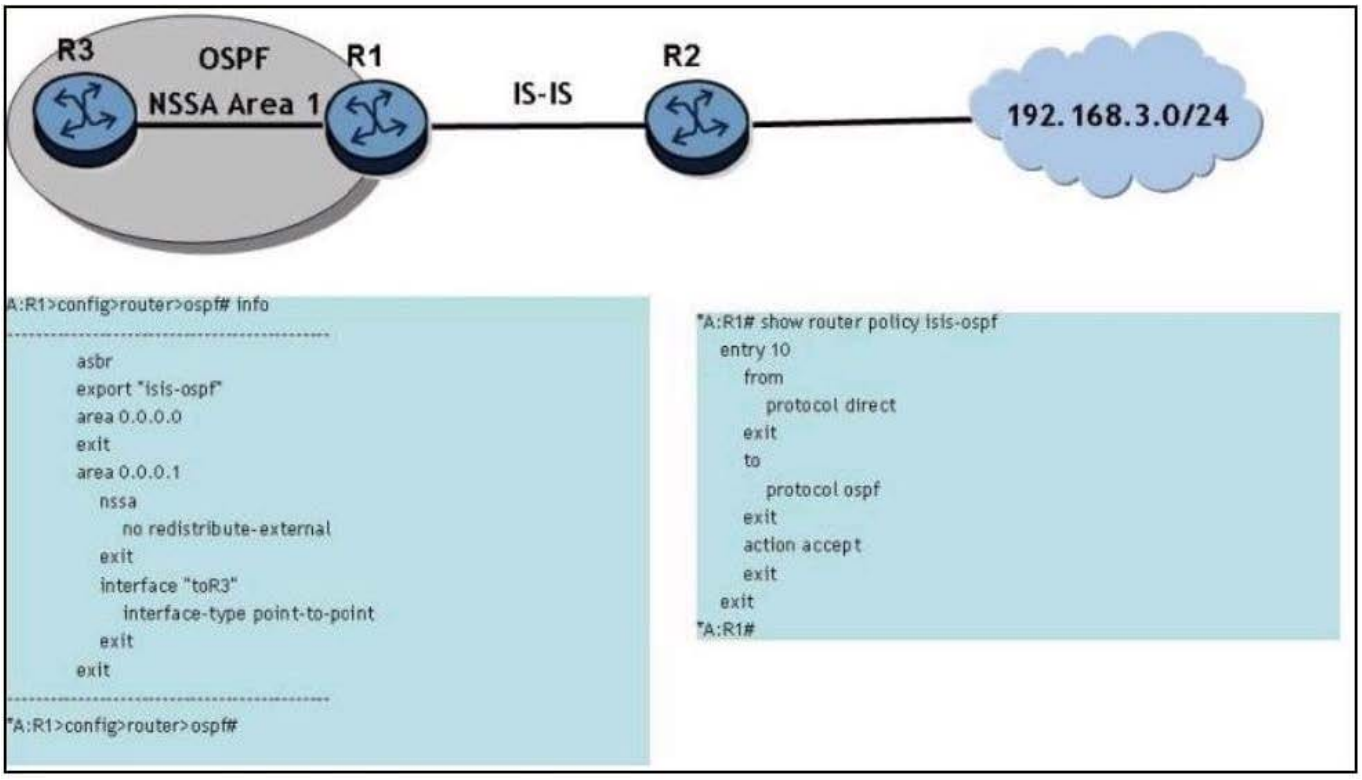
D. 224.0.0.10

E. RIPv2 does not have support for multicast

Correct Answer: C

QUESTION 15

Click the exhibit button A. The route policy should be applied as in import policy



The 192 168 3.0/24 network is learned on router R1 via IS-IS Given the OSPF configuration shown, and assuming that the OSPF adjacency between routers R1 and R3 is up, why is the 192 168.3.0/24 route not in router R3\\'s route table? (Choose two)

B. The no-redistribute-external command is used on router R1

C. The route policy is incorrect. It should say "from protocol ISIS" rather than "from protocol direct".

D. It is not possible to be an ASBR and an NSSA. The ASBR configuration should be removed.

E. The interface between routers R1 and R3 needs to be in OSPF area 0 rather than OSPF area 1 because a backbone area must always exist.

Correct Answer: BC