



Vendor: Huawei

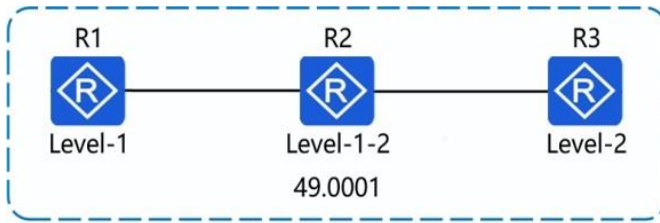
Exam Code: H12-831_V1.0

Exam Name: HCIP-Datacom-Advanced Routing &
Switching Technology V1.0

Version: DEMO

QUESTION 1

In the IS-IS network shown in the figure, R1 introduces the default route through the "default-route-advertise always level-1" command. Which of the following descriptions are correct? (Multiple choice)



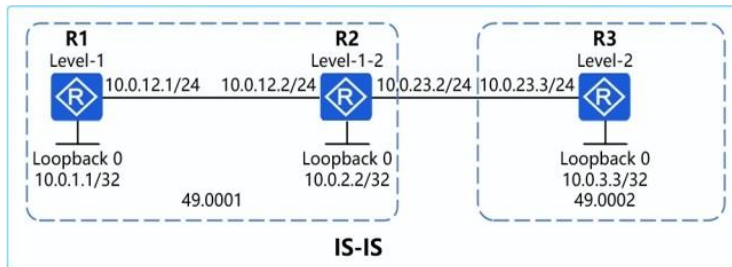
IS-IS

- A. There is a default route in R3's routing table
- B. There is a default route in R2's routing table
- C. There is no default route in R1's routing table
- D. Although R1 is configured with the "default-route-advertise always level-1" command, it cannot import the default route

Answer: BC

QUESTION 2

In the IS-IS network shown in the figure, R1 introduces the default route through the "default-route-advertise always level-1" command. Which of the following descriptions is wrong?



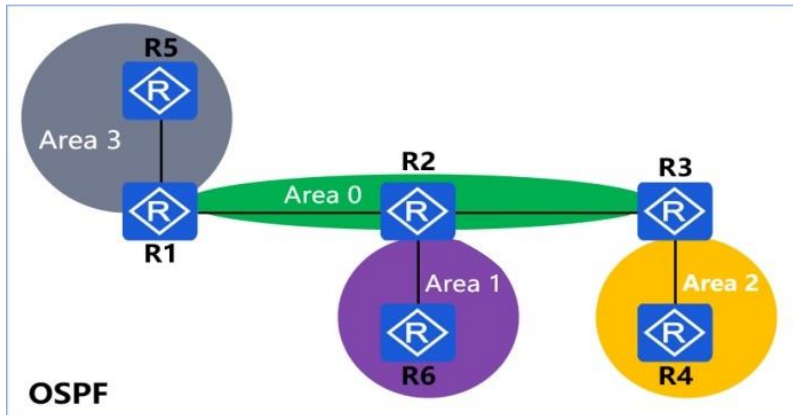
IS-IS

- A. Ping any non-existent IP address on R1, such as 10.0.4.4. The data packet will not be sent from R1.
- B. 10.0.1.1 can ping 10.0.3.3
- C. 10.0.1.1 can ping 10.0.2.2
- D. 10.0.2.2 can ping 10.0.3.3

Answer: A

QUESTION 3

In the OSPF network shown in the figure, the area numbers are marked in the figure, where area 1 is the Stub area, area 2 is the Totally Stub area, and area 3 is the NSSA area. By default, which of the following routers does not have a default route in its routing table?

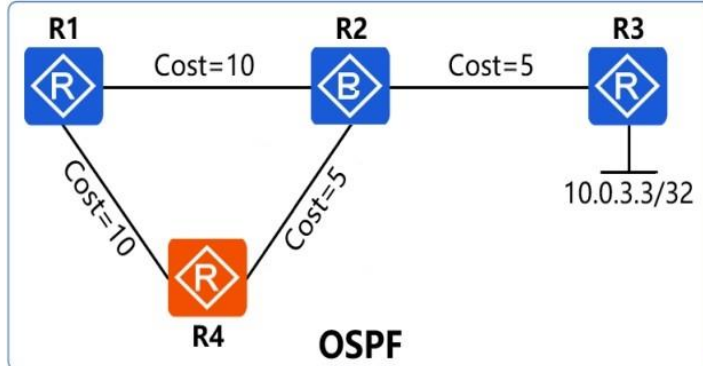


- A. R3
- B. R5
- C. R4
- D. R6

Answer: A

QUESTION 4

In the OSPF network shown in the figure, the link cost value has been marked in the figure. R1 enables OSPF IP FRR. The main path for R1 to reach 10.0.3.3/32 is R1-R2-R3, and the backup path is R1-R4-R2-R3.

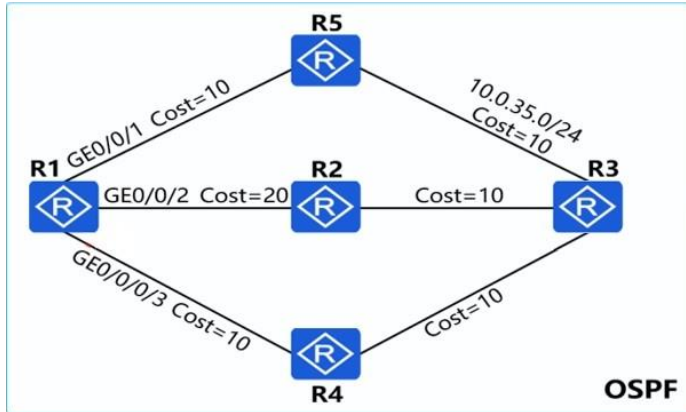


- A. True
- B. False

Answer: B

QUESTION 5

In the OSPF network shown in the figure, the cost value of the link is marked in the figure. R1 has enabled OSPF IP FR and configured the "maximum load-balancing 8" command in the OSPF process. Which of the following is the cost value of reaching 10.35.0/24 in R1's routing table?



- A. 10
- B. 30
- C. 20
- D. 40

Answer: B

QUESTION 6

The OSPF protocol requires routers in the same area to save the same link state database LSDB. As the number of routes on the network continues to increase, some routers cannot carry so much routing information due to limited system resources. This state is called database overload.

If all routers in an OSPF network are configured with "lsdb-overflow-limit number 7", which of the following scenarios may cause the router to enter the Overflow state? (Multiple choice)

- A. The number of Type 5 LSAs exceeds 7
- B. The number of Type 3 LSAs exceeds 7
- C. The number of Type 4 LSAs exceeds 7
- D. The number of Type 7 LSAs exceeds 7

Answer: AD

QUESTION 7

In order to protect the BGP protocol from attacks, Keychain authentication can be used between BGP neighbors to reduce the possibility of attacks. The keychain has a set of passwords that can be automatically switched according to the configuration, which is suitable for networks with high security requirements.

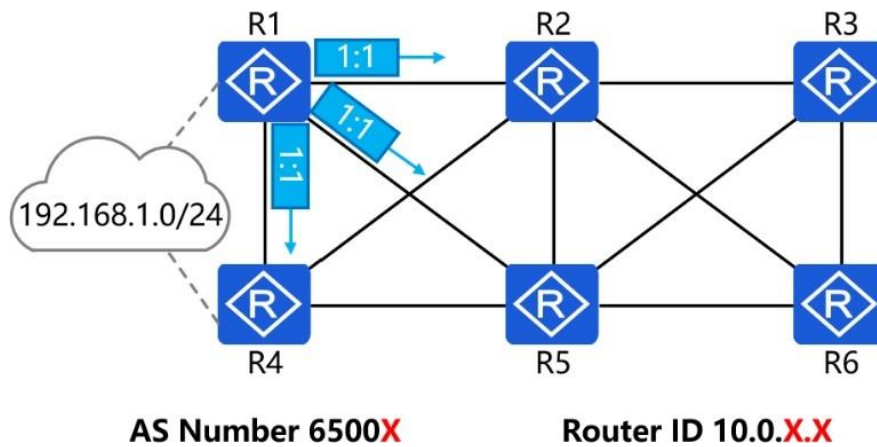
- A. True
- B. False

Answer: A

QUESTION 8

In the network shown in the figure, adjacent routers use directly connected interfaces to establish EBGP neighbor relationships. The Router ID of each device is 10.0.XX, and the AS number is 6500x, where X is the router number. R1 and R4 both have static routes to 192.168.1.0/24, which

are introduced into BGP through import. R1 adds the Community attribute value (1:1) when sending routes to its neighbors, and all routers in the network are enabled to transmit community attributes.



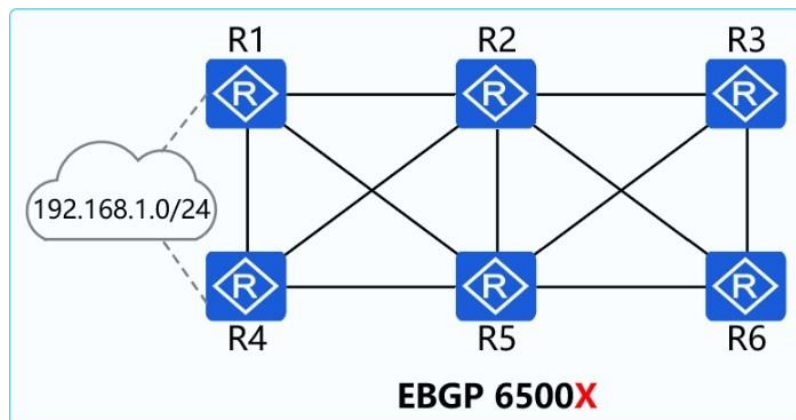
R2 and R3 are configured with routing policies that reject routes with a community attribute value of 1:1. Which of the following is the path for traffic from R3 to 192.168.1.0/24?

- A. R3-R2-R4
- B. R3-R2-R1
- C. R3 has no route to 192.168.1.0/24
- D. R3-R5-R1

Answer: C

QUESTION 9

In the network shown in the figure, adjacent routers use directly connected interfaces to establish EBGP neighbor relationships. The AS number is 6500X, where X is the router number. R1 and R4 both have static routes to 192.168.1.0/24, which are introduced into BGP through import. The maximum number of equal-cost routes configured for EBGP load sharing on R3 is 8.



By default, the number of equal-cost routes from R3 to 192.168.1.0/24 is which of the following?

- A. 2
- B. 8

- C. 1
- D. 3

Answer: A

QUESTION 10

Use "display ospfv3 peer verbose" to view OSPFv3 neighbor information. In the output information, you can see the peer's Router ID, the global unicast address of the peer's interface, the neighbor's status, and other content.

- A. True
- B. False

Answer: B

QUESTION 11

In the OSPFv3 network shown in the figure, the interconnected ports of R1, R2, and R3 have OSPFv3 enabled, and the Router ID of each device is 10.0.XX, where X is the device number. Check the detailed information of a certain LSA on R3. From the output information, it can be inferred that the LSA is generated by R2, and it describes the IPv6 prefix address associated with the Network-LSA.

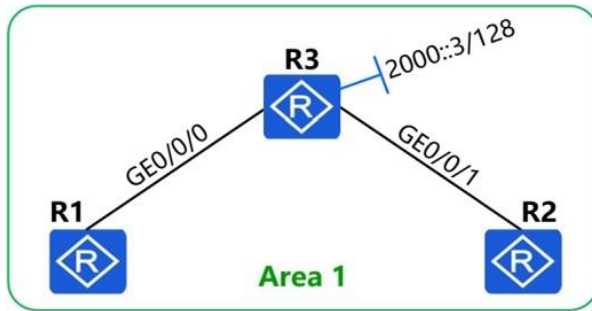


- A. True
- B. False

Answer: A

QUESTION 12

In the OSPFv3 network shown in the figure, the IPv6 address of R3 Loopback0 interface is 2000::3/128, and OSPFv3 is enabled.



OSPFv3

Which of the following descriptions are correct? (Multiple choice)

- A. R2 will definitely generate a Link-LSA
- B. R1 will definitely generate a Network-LSA
- C. R3 will definitely generate an Intra-Area-Prefix-LSA
- D. The Link-LSA generated by R2 will not appear in R1's LSDB

Answer: ACD

QUESTION 13

The LSP information generated by a certain IS-IS router is shown in the figure. From the LSP information, it can be inferred that the router is not the DIS of this link.

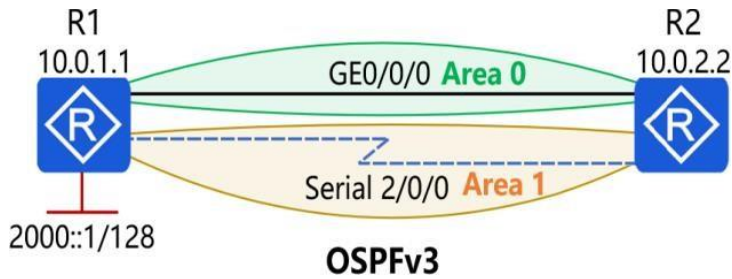
```
0000.0000.0004.00-00 0x00000003 0x4ccd 1022 161 0/0/0
SOURCE 0000.0000.0004.00
NLPID IPV6
AREA ADDR 49.0001
INTF ADDR V6 2000:14::4
INTF ADDR V6 2000:24::4
INTF ADDR V6 2000::4
Topology Standard, IPV6
+MT NBR ID 0000.0000.0002.01 COST: 10 MT: 2 (IPV6)
IPV6 2000:14::/64 COST: 10 MT: 2
IPV6 2000:24::/64 COST: 10 MT: 2
IPV6 2000::4/128 COST: 0 MT: 2
```

- A. True
- B. False

Answer: A

QUESTION 14

In the OSPFv3 network shown in the figure, area 1 is an NSSA area. R1 imports the external route 2000::1/128 into OSPFv3.



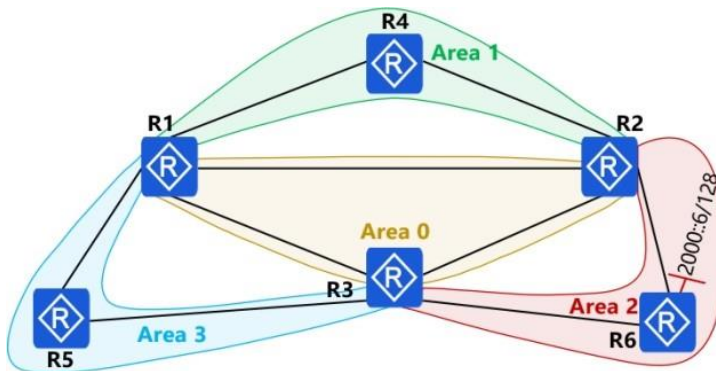
What types of LSAs are in area 0 by default? (Multiple choice)

- A. Link-LSA
- B. Inter-Area-Router-LSA
- C. Inter-Area-Prefix-LSA
- D. Intra-Area Prefix-LSA

Answer: ACD

QUESTION 15

In the OSPFv3 network shown in the figure, area 1 is a stub area, area 2 is a common area, and area 3 is an NSSA area. The IPv6 address of the R6Loopback0 interface is 2000::6/128. The Router ID of each device is 10.0.XX, where X is the device number.



Which of the following descriptions is wrong?

- A. The R4 LSDB contains the Inter-Area-Prefix-LSA describing 2000::6/128 generated by R2.
- B. The Inter-Area-Prefix-LSA describing 2000::6/128 generated by R2 exists in R1's LSDB.
- C. The R6 LSDB contains the Inter-Area-Prefix-LSA describing 2000::6/128 generated by R3.
- D. The R5 LSDB contains the Inter-Area-Prefix-LSA describing 2000::6/128 generated by R1.

Answer: C

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