

# H12-831<sup>Q&As</sup>

HCIP-Datacom-Advanced Routing & Switching Technology V1.0

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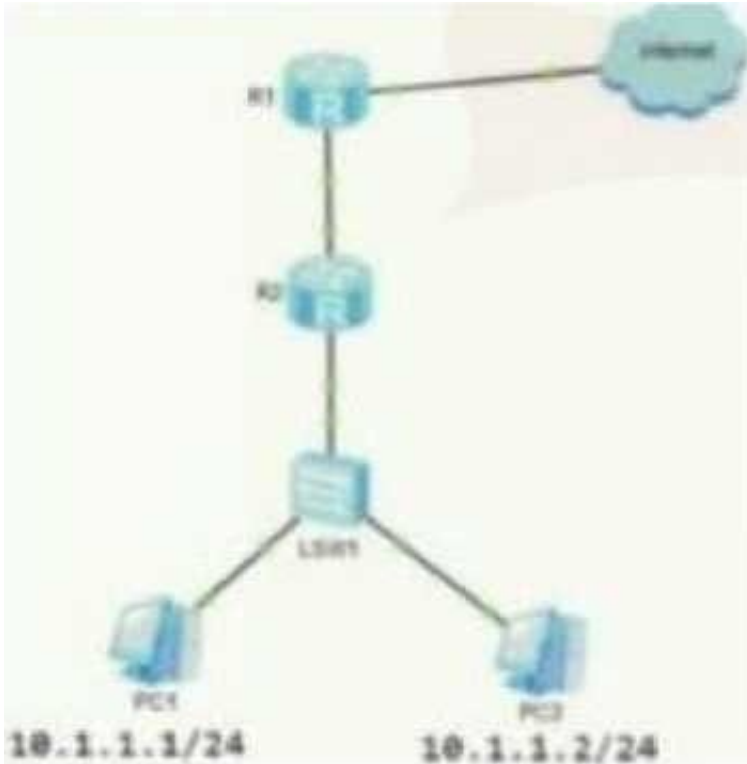
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### QUESTION 1

As shown in the figure, configure a backhaul summary route 10.0.0.0/24 on the border route RT1. next hop to RT2. At the same time, the default route to the external network is configured. At this point, a routing black hole will appear. The following is about routing.

Is the black hole statement correct? (multiple choice)



- A. Configuring black hole routing can solve the routing black hole problem
- B. Routing black hole has no impact on the network and can be ignored
- C. Precise routing \$ can always avoid routing black holes
- D. If the terminal in the network sends data packets to the network segment that does not appear on the internal network, a loop will occur

Correct Answer: ACD

### QUESTION 2

In the multi-level RR scenario, a large number of secondary RRs will be connected to the primary RR, which may lead to BGP of the primary RR. The routing table overflows, what method can be used to reduce the risk of overflowing the routing table of the advanced RR BGP?

- A. ORF

- B. route aggregation
- C. routing control
- D. set the sameCluster-ID

Correct Answer: B

### QUESTION 3

As shown in the figure, private network routing information is exchanged between PE1 and PE2 and their respective CEs through OSPF, and the same DomainID is set on both PE1 and PE2. When routes are imported from BGP to OSPF on

PE2, it is possible that.

Which of the following types of SAs are passed to CE2?



- A. Type1 LSA
- B. Type3 LSA
- C. Type7 LSA
- D. Type5 LSA

Correct Answer: BCD

### QUESTION 4

As shown below:

```
<RA >display ospf lsdb
```

OSPF Process 1 with Router (D 1 72.16-1.1)						
Link State Database						
Area: 0.0,0,0						
LinkState ID	AdvRouter	Age	Len	Sequence	Metric	
172.16.1.3	172.16.1.3	216	60	80000000	1	
72.16.1.2	172.16.1.2	214	60	80000008		
172.16.1.1	172.16.1.1	217	60	80000007		
	172.16.1.1			80000000	0	
Network	10.1.13.2	172.16.1.1	218	32	80000001	0
Network	161.12.2	172.16.1.2	218	32	80000001	0
Network	10.1.34.2	172.16.1.1	209	32	80000002	0

- A. area. have 8 individual routers in the internet
- B. area. have 4 individual routers in the internet
- C. area. have 4 routers
- D. area. have 8 routers

Correct Answer: BC

**QUESTION 5**

According to this picture, we can judge? display ospf lsdb router self-originate OSPF Process 1 with Router ID 10.0.12.1  
 Area: 0.0.0.0 Type: Router Lsid: 10.0.12.1 Adv rtr: 10.0.12.1 Ls age: 312 Len: 36 Options : A, BR E \seq#:80000013  
 1chksum : 0xc61c

Link count: 1 \* Link ID: 10.0.12.2 IData : 10.0.12.1 ,Link Type: TransNet .Metric : 1

- A. R1 of system ID is 10.0.12.1
- B. R1 existing level-1, and level-2 link state information of
- C. R1 only level-2 link state information
- D. In the network, there are a total of 8 routers

Correct Answer: A

**QUESTION 6**

What is wrong with this configuration description is:

```
[Huawei]dhcp enable
[Huawei]inte GigabitEthernet 0/0/1 [Huawei-GigabitEthernet0/0/1 ]dhcp option82
insert en [Huawei-GigabitEthernet0/0/1 ]dhcp snooping enable [Huawei-
GigabitEthernet0/0/1]dhcp snooping trusted
```

[Huawei]dhcp enable [Huawei]inte GigabitEthernet 0/0/1 [Huawei-GigabitEthernet0/0/1 ]dhcp option82 insert en [Huawei-GigabitEthernet0/0/1 ]dhcp snooping enable [Huawei-GigabitEthernet0/0/1]dhcp snooping trusted

- A. ifGigabitEthemnetOIO/1received by the interfaceDHCPIn the request message, there is noOption82of SutOptioninformation, the device will generateOption82,and insert it into the message
- B. turn onDHCP Snoopingconfiguration can be used to preventDHCP ServerCounterfeiter Attack
- C. configureGigabitEthernetO/0/IThe interface is a trusted interface
- D. turn onDHCP Snoopingconfiguration can be used to preventARPspoofing attack

Correct Answer: D

**QUESTION 7**

Network administrator A wants to use AS-Path Filter to match the BGP routing attribute AS\_PATH[100200300]. Network administrator A sorts out the four configurations in the figure. Which of the following configurations can meet the requirements of network administrator A?

Method	Config
A	ip as-path-filter TEST permit 100 200 300
B	ip as-path-filter TEST permit _300\$
C	ip as-path-filter TEST permit ^[^100]
D	ip as-path-filter TEST permit *.

- A. way A
- B. way D
- C. WayC
- D. way B

Correct Answer: AD

#### QUESTION 8

Configuring DHCP Snooping can be used to prevent imitator attacks, so the configuration process needs to include the following. What are the steps?

- A. enable globalDHCP SnoopingFunction
- B. enable globalDHCPFunction
- C. Configure Interface Trust Status
- D. enable interface orVLANofDHCP SnoopingFunction

Correct Answer: ABCD

---

#### QUESTION 9

About the difference between NSR and NSF, which is correct?

- A. NSFCan be done without neighbor routers
- B. NSRMust rely on neighbor routers to complete
- C. NSFMust rely on neighbor routers to complete
- D. NSRandNSFBy6Requires neighbor router to complete

Correct Answer: C

---

#### QUESTION 10

OSPFV2 is an IGP running on an IPv4 network; OSPFvV3 is an IGP running on an IPv6 network the packet types of OSPFV3 and OSPFV2 are the same, including .Hello message, DD message, LSU message, LSU packets and SACK packets. Which of the following statements is correct about OSPFV3 packets?

- A. OSPFv3Complete packet authentication using the authentication field in the packet header
- B. OSPFV3The link-local address is used as the source address of the sent packet, and the packet can be forwarded outside the range of the originating link
- C. OSPFv3useIPv6multicast addressFF02::5heheFF02::6sendOSPFv3message
- D. OSPFV3ofHelloThe packet carries the router interfaceIPv6address prefix list

Correct Answer: C

---

#### QUESTION 11

To ensure security, authentication can be configured in the OSPFV3 process area view.

- A. True
- B. False

Correct Answer: A

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#### QUESTION 12

What are the wrong statements about OSPF's Router LSA and Network LSA?

- A. run OSPF The router must generate Network LSA
- B. run OSPF The router must generate Router LSA
- C. OSPF must exist in the network Router LSA and Network LSA
- D. Network LSA, Carry both topology and routing information

Correct Answer: AC

---

#### QUESTION 13

According to this picture, you can judge

```
<R1>display ipv6 routing-table protocol bgp
```

```
Public Routing Table: BGP
```

```
Summary Count : 1
```

```
BGP Routing Table's Status : < Active >
```

```
Summary Count : 1
```

```
Destination : 3002::3
```

```
PrefixLength : 128
```

```
NextHop : 3000:FDEA::3
```

```
Preference : 255
```

```
Cost : 0
```

```
Protocol : IBGP
```

```
RelayNextHop : FE80::2E0:FCFF:FE98:2577
```

```
TunnelID : 0x0
```

```
Interface : GigabitEthernet0/0/1
```

```
Flags : RD
```

```
<R1>
```

- A. The optimal outgoing interface for R1 to access room 3000: FDEA::3 is GigabitEthernet0/0/1
- B. R1 with 3000:FDEA::3 is IB6P neighbor
- C. R1 has a TCP connection with 3000:FDEA::3
- D. R1 learned route 3002 through IBGP::3/128

Correct Answer: BD

#### QUESTION 14

Which of the following are advantages of VLAN aggregation?



- A. decreased IP waste of address
- B. added available LAN quantity
- C. Increased addressing flexibility
- D. accomplish Sub-VLAN isolation between broadcast domains

Correct Answer: AD

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#### QUESTION 15

When OSPFV2 evolves to OSPFV3, the LSA format and function are exactly the same, but the network layer in the LSA address from IPv4 to IPv6.

- A. True
- B. False

Correct Answer: B

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