

CERTIFICATIONS

PREP

Huawei

H12-831_V1.0

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

QUESTION & ANSWERS

QUESTION 1

Assuming that the neighbor relationship between BGP routers has been established successfully, the configuration on R1 is shown in the figure. ask for R1
Which router can the route entry 10.10.10.0/24 be delivered to the farthest?



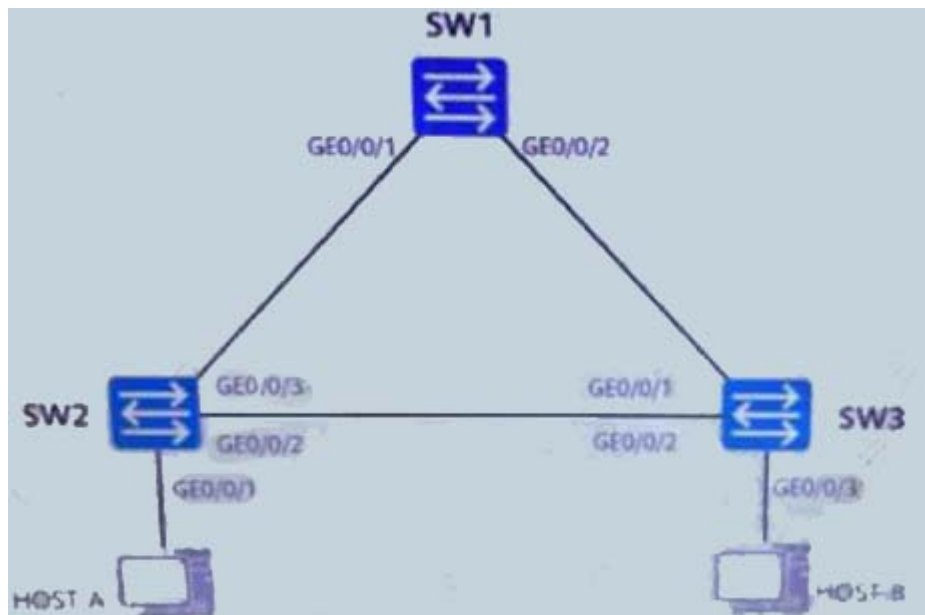
```
AS 200
bgp 100
peer 13.X3 as-number 300
peer B3.33 connect * interface LoopBack0 peer 3.33.3 route-policy COMMUNITY e»porx peer 3333
next
>hop-local
peer XI.3.3 advertise-cofnmunity
network 10.10.T0.0 24
route^poktcy COMMUNITY permit node 10 prefix COMMUNITY spply cocYWTUiiMty route-policy
COMMUNITY permit node 20 «p ip prefix COMMUNITr index 10 permit
```

- A. R1
- B. R2
- C. R3
- D. R4

Correct Answer: C

QUESTION 2

As shown in the figure, the network has a loop because STP is not enabled. Which of the following phenomena may be bowed?



- A. Hosts receive a large number of broadcasts
- B. The device will generate a loop alarm
- C. equipment CPU occupancy is too high
- D. MAC address table flapping

Correct Answer: A,B,C,D

QUESTION 3

Cutover The previous information collection can be used to determine whether the services before and after the cutover are normal.

- A. right
- B. wrong

Correct Answer: A

QUESTION 4

about OSPF Which of the following statements is false?

- A. For a pair of adjacent routers on an Ethernet link, it is normal to stop clearing in the 2-72 state
- B. Stalling in ExStart state may be a bad match between neighbor routers
- C. stagnant IN The it state indicates that the router has received the neighbor's Hello message. but Hello message does not include this router's OSPF Router ID
- D. The two router databases are synchronized, SPF An error occurred in the calculation, it must be because of the Router ID repeated

Correct Answer: A

QUESTION 5

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: A,D

QUESTION 6

From this picture, we can judge

<R1>display bgp ipv6 routing-table	
Total Number of Routes: 2	
Network : 3002:3	PrefixLen : 128
NextHop 3000::FDEA:3	LocPrf : 100
MED: 0	PrefVal 0
Path/Ogn-ii	
•>i Network 3002:2::4	
NextHop 3000::FDEA:3	PrefixLen: 128
MED	LocPrf WO
Path/Ogn 65001 i	PrefVal 0

- A. If not configured about AS_Path routing strategy, then 3002::4/128 —must not originate from AS 65001
- B. R1 does not have 3002:3/128 and 3002::4/128 routing
- C. R1 has 3002::3/128 and 3002::4/128 routing
- D. If not configured about AS_Path routing strategy, then 3002:4/28 must have originated from AS 65001

Correct Answer: C,D

QUESTION 7

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

- A. NSF must rely on neighbor routers to complete
- B. Both NSR and NSF require neighbor routers to complete
- C. NSR must rely on neighbor routers to complete

Correct Answer: B

QUESTION 8

Which of the following statements about VLAN aggregation is true?

- A. Super-VLAN Only physical interfaces cannot establish Layer 3 VLANIF interface
- B. One Super-VLAN can contain one or more Sub-VLAN
- C. Sub-VLAN Contains physical interfaces. Three layers can be built VLANIF interface
- D. Sub-VLAN for isolating broadcast domains

Correct Answer: B,D

QUESTION 9

Please match OSPFv3 LSA with its transmission range.

Link-LSA	自治系统范围
AS-external-LSA	区域内部传播
Network-LSA	本地链路范围

Correct Answer:

Link-LSA local link range

AS-external-LSA Autonomous system-wide intra-regional propagation

Network-LSA intra-regional spread

QUESTION 10

During the test phase of the cutover, the criteria to indicate that the test has been completed are:

- A. IPThe configuration view result of the device is normal as the standard
- B. Test that the network service is normal as the standard
- C. The upper-layer application service test carried by the network is normal as the standard
- D. check that the network is running normally as a standard

Correct Answer: C

QUESTION 11

Which of the following actions may affect the normal operation of the customer's network?

- A. Device naming
- B. software upgrade
- C. Hardware expansion
- D. Routing Protocol Configuration Changes

Correct Answer: B,C,D

QUESTION 12

How many bits are there in the label field of PLS?

- A. 1
- B. 8
- C. 3
- D. 20

Correct Answer: D

QUESTION 13

The router ID of OSPF V3 needs to be configured in dotted decimal with a length of 128 bits.

- A. True
- B. False

Correct Answer: B

QUESTION 14

What is the default aging time of the MA, C address table of Huawei switches?

- A. 300
- B. 500
- C. 400
- D. 5

Correct Answer: A

QUESTION 15

As shown in the figure, all routers run OSPF, because R3 is in the backbone area, so in the LSDB of R3 There are no three types of LSAO



- A. True
- B. False

Correct Answer: B

QUESTION 16

A router runs OSPF, and the output information is shown in the figure. Which of the following statements is correct?

```
<Huawei>display ospf lsdb summary OSPF Process 1 with Router ID 10.0.12.1
Area: 0.0.0.0 link State Database
```

```

Type: Sum-Net
  Lsid: 10.0.23.0
  Adv rtr : 10.0.12.2
  Ls age : 61
■ Len : 28
  Options: E
  seq#: 80000001
  chksum: 0x3ae8
  Netmask : 255.255.255.0
I  Tos 0 metric: 1
  IPriority : Low
```

- A. Should LSA is of type AS-external-LSA
- B. Should LSA The described destination network is 10.0.23.0/24
- C. in the picture LSA is generated by this router
- D. This device is A, BR

Correct Answer: B

QUESTION 17

In the same environment, engineers A and B execute the tracert command. The destination addresses are the same, but the paths are different. What are the possible reasons?

Engineer A:

```
<R1>tracert -A 172.16.1.1 172.16.1.4
```

```
1 10.1.12.2 10 ms 10 ms 10 ms
```

```
2 10.1.24.2 30 ms 10 ms 10.1.34.2 30 ms
```

Engineer B:

```
<R1>tracert -A 172.16.1.1 -P 33436 172.16.1.4
```

```
1 10.1.12.2 20 ms 20 ms 20 ms
```

```
2 10.1.34.2 30 ms 40 ms 20 ms
```

- A. The phenomenon is abnormal, the device has an operating system failure
- B. Engineer A's operation error
- C. Engineer B's operation error
- D. The destination port numbers of the UDR packets serving tracert are different, and the hashes reach different equivalent next hops.

Correct Answer: D

QUESTION 18

the configuration file of the device. Is the following statement D wrong?

- A. Regardless of whether the device is configured with apricotBPDU Tunnel,neither will be correctMSTPmake an impact
- B. Port connected to user terminal equipmentMSTPWhether it is disabled or configured as an edge port
- C. Check port configuration to confirm enableMSTPWhether the port is enabled with the protocol packet sending command. Such as:bpdu enable
- D. Check if the port is added to the correct oneWLAN

Correct Answer: A

QUESTION 19

A network engineer entered the following information when troubleshooting OSPF faults. Based on this, you can judge what causes the adjacency relationship to fail to be established normally?

OSPF Process 1 with Router ID 10.0.12.2			
OSPF error statistics			
Interface: GigabitEthernet0/0/0 (10.0.12.2)			
General packet errors:			
0	Bad version	0	Bad checksum
0	Bad area id	0	Bad authentication type
0	Bad authentication key	0	Unknown neighbor
0	Bad net segment	0	Extern option mismatch
0	Router id confusion		
HELLO packet errors:			
2	Netmask mismatch	0	Hello timer mismatch
0	Dead timer mismatch	0	Invalid Source Address

- A. Authentication passwords do not match
- B. Inconsistent area type
- C. Hello timer mismatch
- D. Inconsistent address masks

Correct Answer: D

QUESTION 20

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						
1Typ*-	LinkState ID	AdvRouter	Age	Len	Sequence	Metric
Router	17216.1.3	172.16.1.3	216	60	B0000000	1
.Ro—T	72 16.1,2	172.1 2	214	60	80000008	
	17X16 1 1		217	60	80000007	
		1 * 1			sooooooc)^>	
		1 1& 1."			member-	0
Network	10/1.13.2	1 7N16.1.m	218	32	80000001	O
Network	161.12.2	172J6.1 2	21 8	32	80000001	0
Network	10.1.34.2	172.1 6.1 A	209	32	80000002	o

- A. area. have8indivualMAThe internet
- B. area. have4indivualMAThe internet
- C. area. have4router
- D. area. have8router

Correct Answer: B,C

QUESTION 21

The rules of RR advertising routes violate the rules of IBGP split horizon, so it may cause loops in the AS road. Which routing attributes does RR use to prevent loops?

- A. Cluster List
- B. Originator ID
- C. Nexthop
- D. AS-PATH

Correct Answer: A,B

QUESTION 22

The link status information between different S.4S processes of the routers around the Taiwan and

Taiwan is considered to be sound insulation.

- A. True
- B. False

Correct Answer: A

QUESTION 23

A company consists of a head office and two branch offices, and uses MPLS VPN technology to transmit private network routes. In the networking mode of HuB&Spoke. Branches can only send and receive routes to and from the head office, and branches cannot directly send and receive routes to each other. In order to achieve the above requirements, which of the following schemes can the setting of RT be?

- A. head office:Import Target 12:3; Export Target 3:12; Branch1:Import Target,3:12;Export Target 12:3;Branch2:Import Target: 3:12; Export Target: 12:3
- B. head office:Import Target:1:1;Export Target: 3:3;Branch1:Import Target:3:3;Export Target: 1:1;Branch2:Import Target: 3:3; Export Target:2:2
- C. head office:Import Target 1:1, 2:2;Export Target: 3:3;Branch1:Import Target:3:3; Export Target: 1:1;Branch2:Import Target:3:3; Export Target:2:2
- D. head office:Import Target: 2:2;Export Target:3:3;Branch1:Import Target: 3:3;Export Target: 1:1;Branch2:Import Target: 3:3; Export Target:2:2

Correct Answer: A,C

QUESTION 24

In PLSVPN, in order to distinguish IPv4 prefixes that use the same address space, the value of R0 is added to the IPv4 address. The correct description of the following options is:

- A. On a PE device, each VP instance corresponds to a value of 0. On the same PE device, the RD value must be unique. ____, ____, ____.
- B. RD can be used to control the publication of 1 routing information
- C. RD is encapsulated in Update message as BGP extended community attribute during delivery
- D. After the PE receives the IPv4 route from the CE, it adds RD to the IPv4 route to convert it into a globally unique VPN-IPv4 route, and publishes it on the public network

Correct Answer: A,C

QUESTION 25

IS-IS supports multi-instance and multi-process, that is, one IS-S router. Multiple VPN instances can be configured with multiple IS-IS process associated. Are the following descriptions of IS-IS multi-instance and multi-process correct?

- A. individual IS-IS process can only be used with 1 individual VPN instance association
- B. if one IS-IS process is created, each process does not affect each other, independent of each other
- C. 1 individual IS-IS process can be associated with multiple different VPN instance association
- D. 1 individual VPN instance can be associated with multiple different IS-IS process association

Correct Answer: A,B,D