

# HCIA-Datacom V1.0

1. As shown in the figure, there are three data packets captured by the administrator on the network. Which of the following statements is incorrect? (Single choice question)

Source destination protocol info

```
10.0.12.110.0.12.2TCp50190>telnet [ SYN ] seq = 0win = 8192Len = 0mss = 146010.0.12.210.0.12.1
```

```
TCP telnet:50190 SYN, ACK seq=0 Ack=1 win=8192 Len=0mss=1460
```

```
10.0.12.110.0.12.2 TCP50190>telnet(ACK)seq=1Ack=1win=8192len=0
```

A. None of these three data packets contain application layer data

B. These three data packets represent the three-way handshake process of TCP

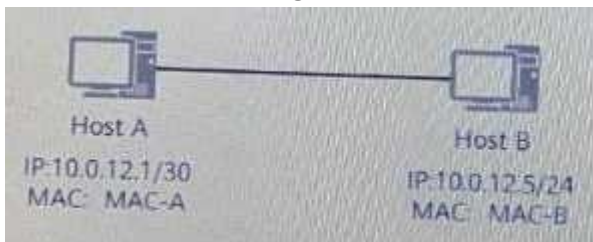
C. The telnet client uses port 50190 to establish a connection with the server

D. The IP address of the telnet server is 10.0.12.1. The IP address of the telnet client is 10.0.12.2

**Answer(s): D**

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2. As shown in the figure below. Host A and Host B cannot communicate. () (True or False)



A. True

B. False

**Answer(s): B**

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3. As shown in the figure, when the switch needs to forward frames with the destination mac address of 5489-98ec-f011, which of the following descriptions is correct? () (Single-choice

question)

```
<Huawei>display mac-address
```

```
MAC address table of slot 0:
```

MAC Address	VLAN/ VSI/SI	PEVLAN	CEVLAN	Port	Type	LSP/LSR-ID
5489-9885-18a8	1	-	-	Eth0/0/2	dynamic	0/-
5489-989d-1d30	1	-	-	Eth0/0/1	dynamic	0/-

```
Total matching items on slot 0 displayed = 2
```

- A. The switch will send a message that the destination is unreachable to the source device
- B. The switch did not find a matching entry in the mac address table. So the frame will be discarded
- C. The switch needs to send a request to discover the device with the mac address of 5489-98ec-f011
- D. The switch will be All ports outside flood the frame

**Answer(s):** D

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4. The mac address of the existing switch is shown in the figure. Which of the following statements is correct ()? (Multiple Choice Questions)

```
<Huawei>dis mac-address
MAC address table of slot 0:
```

MAC Address	VLAN/ VSI/SI	PEVLAN	CEVLAN	Port	Type	LSP/LSR-ID
5489-9811-0b49	1	-	-	Eth0/0/3	static	-

Total matching items on slot 0 displayed = 1

```
MAC address table of slot 0:
```

MAC Address	VLAN/ VSI/SI	PEVLAN	CEVLAN	Port	Type	LSP/LSR-ID
5489-989d-1d30	1	-	-	Eth0/0/1	dynamic	0/-
5489-9885-18a8	1	-	-	Eth0/0/2	dynamic	0/-

Total matching items on slot 0 displayed = 2

A. When the switch restarts, the mac address learned by port Eth0/0/2 does not need to be relearned

B. The data frame with the source mac address of 5489-9885-18a8 and the destination mac address of 5489-989d-1d30 learned from the port is forwarded from the Eth0/0/1 port

C. The source mac address learned from the port is 5489-9811-0b49. The data frame with the destination mac address 5489-989d-1d30 is forwarded from the Eth0/0/2 port

D. When the switch restarts, the mac address learned by port Eth0/0/3 needs to be re-learned

**Answer(s): B**

5. The network administrator configures the RTA on the Huawei router as shown in the figure. If a user needs to be authenticated in the authentication domain "huawei", which of the following descriptions is correct? () (Single-choice question)

(RTA) aaa

(RTA-aaa) domain huawei

(RTA-aaa-doaain huavei) authentication -schene au1

(RTA-aaa-dogairhuavel) authenticlcation-schene au2

A. Will use "authentication-scheme aul" authentication

B. "Authentication-scheme aul authentication will be used. If "au1 is deleted."au2 authentication will be used

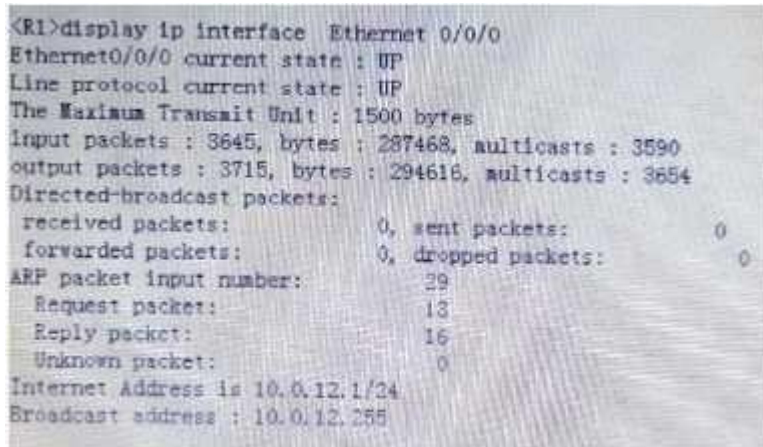
C. "Authentication-scheme au2 authentication will be used. If "au2" is deleted, "aul authentication will be used

D. Will use "authentication-scheme au2" authentication

**Answer(s): C**

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6. The output information of the router is shown in the figure. Which of the following statements is wrong? () (Single-choice question)



```
<R1>display ip interface Ethernet 0/0/0
Ethernet0/0/0 current state : UP
Line protocol current state : UP
The Maximum Transmit Unit : 1500 bytes
Input packets : 3645, bytes : 237468, multicasts : 3590
output packets : 3715, bytes : 294616, multicasts : 3654
Directed-broadcast packets:
  received packets:      0, sent packets:      0
  forwarded packets:    0, dropped packets:    0
ARP packet input number:
  Request packet:       13
  Reply packet:         16
  Unknown packet:       0
Internet Address is 10.0.12.1/24
Broadcast address : 10.0.12.255
```

The broadcast address corresponding to the \_\_\_\_\_.

A. Ethernet0/0/0 interface is 10.0.12.255

B. The physical link of the Ethernet0/0/0 interface is normal

C. Ethernet0/0/0 interfaceThe MTU value is 1480

D. Ethernet (The IP address of the /0/0 interface is 10.0.12.1/24

**Answer(s): C**

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7. The following figure shows the routing table of a router. When the router receives a destination. When the P address is a data packet of 9.1.1.1, the router will forward according to the route of

9.1.0.0/16 because the mask length of this route is longer. () (True or False)

```
<Huawei>display ip routing-table
Route Flags: R - relay, D - download to fib

Routing Tables: Public  Destinations: 2  Routes: 2
Destination/Mask  Proto  Pre  Cost  Flags  NextHop  Interface
0.0.0.0/0         Static  60   0     D      120.0.0.2  Serial1/0/0
8.0.0.0/8         RIP    100  3     D      120.0.0.2  Serial1/0/0
9.0.0.0/8         OSPF   10   50    D      20.0.0.1   Ethernet2/0/0
9.1.0.0/16        RIP    100  4     D      120.0.0.2  Serial1/0/0
11.0.0.0/8        Static  60   0     D      120.0.0.2  Serial2/0/0
20.0.0.0/8        Direct  0    0     D      20.0.0.1   Ethernet2/0/0
20.0.0.1/32       Direct  0    0     D      127.0.0.1   Loopback0
```

A. True

B. False

**Answer(s): A**

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8. What is wrong about the description of the information as shown in the figure? () (Single-choice question)

(R1) display interface g0/0/0

GigabitEthernet0/0/0 current state :Administratively DOWN Line protocol current state :DOWN

A. GigabitEthernet (/0/0 interface is connected to a wrong cable

B. The GigabitEthernet0/0/0 interface is not configured with an IP address

C. The GigabitEthernet0/0/0 interface was manually closed by the administrator

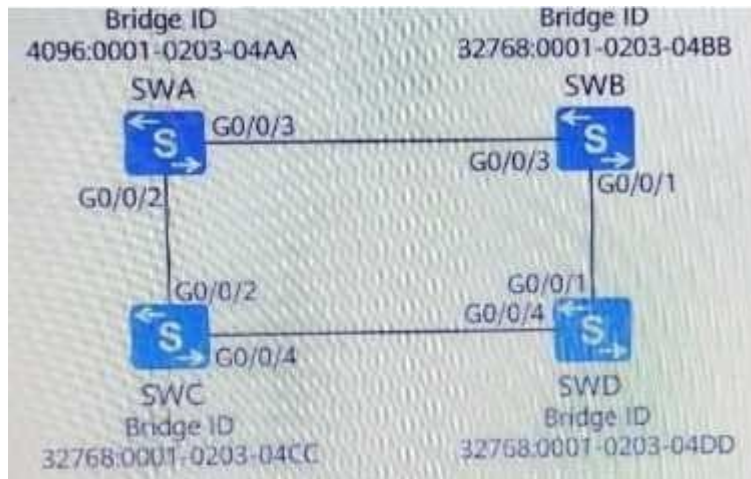
D. GigabitEthernet (0/0/0 interface does not enable dynamic routing protocol

**Answer(s): C**

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9. In the figure below, all switches have enabled the STP protocol, assuming that the path cost value of all ports is 200. What is the root path cost value contained in the configuration BPDU

message received by the G0/0/4 port of SWD? () (Single-choice question)



A. 600

B. 200

C. 0

D. 400

**Answer(s): D**

10. The information shown in the figure is the port status information displayed on a switch running STP. According to this information, what is wrong in the following description? () (Single-choice question)

Instance ID	Port	Role	STP State	Protection
0	GigabitEthernet0/0/1	DESIGNATED	FORWARDING	NONE
0	GigabitEthernet0/0/2	DESIGNATED	FORWARDING	NONE
0	GigabitEthernet0/0/13	DESIGNATED	FORWARDING	NONE
0	GigabitEthernet0/0/21	DESIGNATED	FORWARDING	NONE
0	GigabitEthernet0/0/22	DESIGNATED	FORWARDING	NONE
0	GigabitEthernet0/0/23	DESIGNATED	FORWARDING	NONE

A. This switch is the root switch in the network

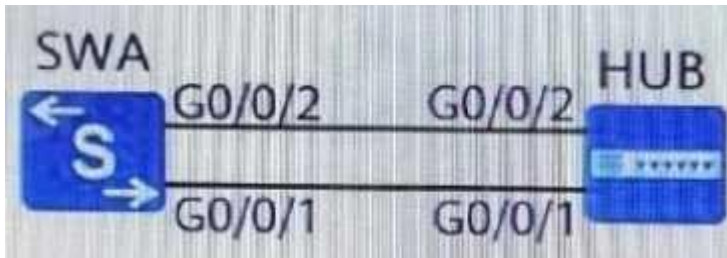
B. The priority of this switch is 0

C. This network may only contain this switch

D. This switch may be connected to 6 other switches

**Answer(s): B**

11. As shown in the figure, the switch runs STP with default parameters. Which of the following ports will be elected as the designated port? () (Single-choice question)



A. Port G0/0/1 of switch A

B. HUB's G0/0/1 port

C. HUB's G0/0/2 port

D. Port G0/0/2 of switch A

Answer(s): A

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12. As shown in the figure below, all hosts can communicate normally. Is the correspondence between the MAC address and the port in the MAC address table of SWB correct? () (Single-choice question)



A. MAC-A GO/0/1MAC-B GO/0/2MAC-C GO/0/3

B. MAC-A GO/0/2MAC-B GO/0/2MAC-C GO/0/3

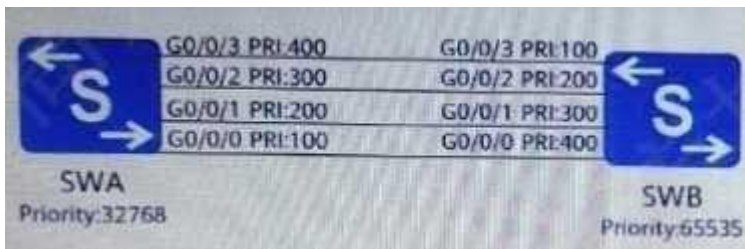
C. MAC-A GO/0/3MAC-B GO/0/3MAC-C GO/0/1

D. MAC-A GO/0/1MAC-B GO/0/1MAC-C GO/0/3

Answer(s): C

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13. The priority of the LACP protocol is shown in the figure. Switch A and Switch B adopt LACP mode link aggregation, and all interfaces are added to the link aggregation group. At the same time, set the maximum number of active ports to 3. Then which port of switch A is not an active port ? ( ) (Single - choice question)



A. G0/0/0

B. G0/0/1

C. G0/0/2

D. G0/0/3

**Answer(s): D**

14. The administrator has configured the router as shown in the figure. Then a host connected to the G1/0/0 interface of the router. What kind of IP address can be obtained through DHCP? ( ) (Single- choice question)

```
[Router] ip pool pool1
[Router-ip-pool-pool1] network 10.10.10.0 mask 255.255.255.0
[Router-ip-pool-pool1] gateway-list 10.10.10.1
[Router-ip-pool-pool1] quit
[Router] ip pool pool2
[Router-ip-pool-pool2] network 10.20.20.0 mask 255.255.255.0
[Router-ip-pool-pool2] gateway-list 10.20.20.1
[Router-ip-pool-pool2] quit
[Router] interface gigabitethernet 1/0/0
[Router-GigabitEthernet1/0/0] ip address 10.10.10.1 24
[Router-GigabitEthernet1/0/0] dhcp select global
```

A. The IP address obtained by the host belongs to the 10.10.10.0/24 network

B. The IP address obtained by the host belongs to the 10.20.20.0/24 network

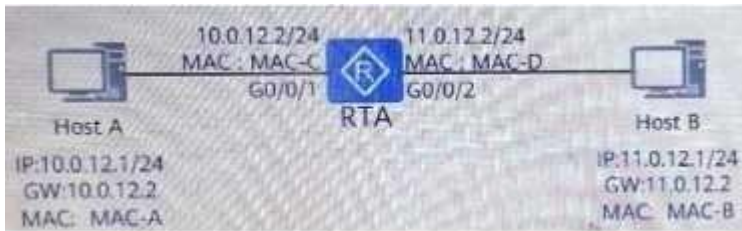
C. The IP address obtained by the host may belong to the 10.10.10.0/24 network, or it may belong to the 10.20.20.0/24 network

D. The host cannot get an address



Answer(s): A

15. In the network shown in the figure below, the router receives a data packet with a destination IP address of 11.0.12.1 from host A. This data packet is forwarded by the router. What are the destination mc and destination IP? () (Single-choice question)



A. MAC-D10.0.12.2

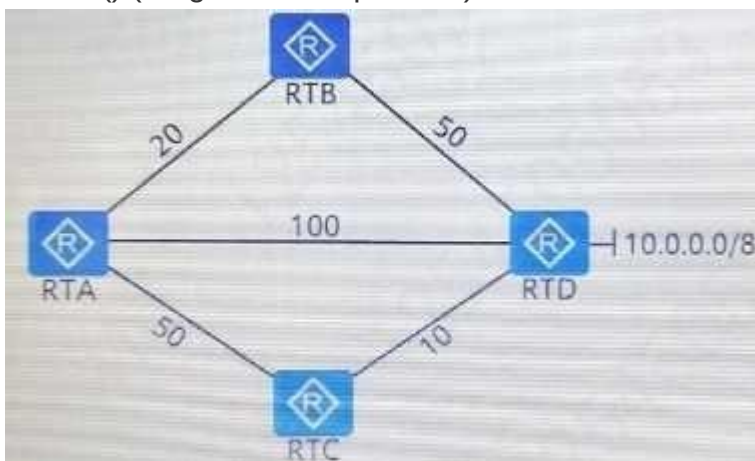
B. MAC-D11.0.12.1

C. MAC-C11.0.12.1

D. MAC-B11.0.12.1

Answer(s): D

16. The network shown in the figure below. All routers run OSPF. The link cost value is shown in the figure. What is the cost value of the route entry to the network 10.0.0.0/8 in the RTA routing table? () (Single-choice question)



A. 100

B. 70

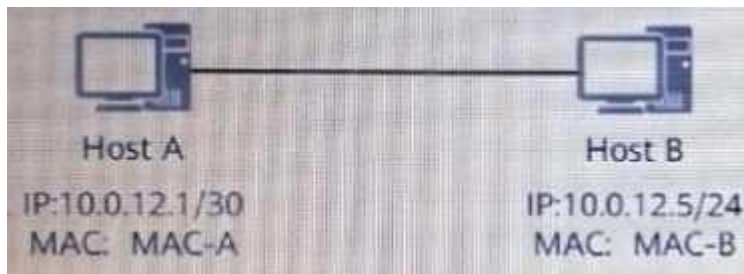
C. 20

D. 60

**Answer(s): D**

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**17.** As shown in the figure below, which of the following statements is correct? () (Single-choice question)



A. Host A can ping host B

B. Only if the masks of host A and host B are set to be the same, host A and host B can communicate

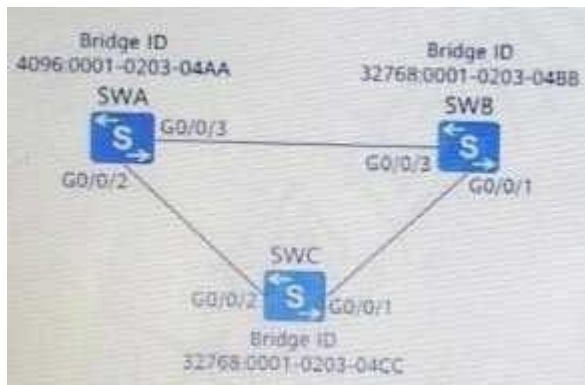
C. The IP address mask b of host A and host B are different. Therefore, host A and host B cannot communicate

D. The broadcast address of host A and host B are the same

**Answer(s): A**

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**18.** As shown in the figure below. Which port of the following switches will be blocked? () (Single-choice question)



A. SWC's G0/0/2

B. SWA's G0/0/3

C. SWC's G0/0/1

D. G0/0/3 of SWB

**Answer(s): C**

**19.** Refer to the configuration of the single-arm routing in the figure below, you can judge that even if the ARP proxy is not enabled on the sub-interface of R1, the administrative department and the financial department can also visit each other. () (True or False)



A. True

B. False

Answer(s): B

---

20. The configuration information of a certain port of the switch is shown in the figure. What is the PVID of this port? () (Single-choice question)

```
#
interface GigabitEthernet0/0/1
 port hybrid tagged vlan 2 to 3 100
 port hybrid untagged vlan 4 6
#
```

A. 100

B. 2

C. 4

D. 1

Answer(s): D

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