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Q&A

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Exam : H12-811_V1.0

Title : HCIA-Datacom V1.0

Version : V8.02

1. When the host accesses the web server of the server, the network layer protocol field takes the value 6.

- A. True
- B. False

Answer: A

2. A network engineer prompts the following information when entering the command line:

Error: unrecognized command found at '^' position.

Which of following statement about the prompt information is correct?

- A. The input command is not clear
- B. Wrong parameter type
- C. No keyword found
- D. Input command is incomplete

Answer: A

3. As shown in the figure, there are three data packets captured by the administrator on the network.

Which of the following statements is incorrect?

Source destination protocol info

10.0.12.1 10.0.12.2 TCP 50190>telnet [SYN] seq=0 win=8192 Len=0 mss=1460

10.0.12.2 10.0.12.1 TCP telnet>50190 [SYN,ACK] seq=0 Ack=1 win=8192 Len=0
mss=1460

10.0.12.1 10.0.12.2 TCP 50190>telnet [ACK] seq=1 Ack=1 win=8192 Len=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, and the IP address of the telnet client is 10.0.12.2

Answer: D

4. Under the command line interface of Huawei AR router, the save command is used to save the current system time.

- A. True
- B. False

Answer: B

5. Regarding the transport layer protocol, which of the following statements are correct? (Multiple Choice)

- A. The establishment of a TCP connection is a three-way handshake process, and the termination of a TCP connection requires a four-way handshake
- B. UDP uses the SYN and ACK flags to request and confirm the establishment of a connection
- C. The range of well-known port numbers is 1-1023
- D. UDP is suitable for transmitting delay-sensitive traffic and can be reorganized according to the sequence number field in the message header

Answer: AC

6. The tracert diagnostic tool in Huawei routers is used to track the forwarding path of data.

A. True

B. False

Answer: A

7. In which of the following network types does the ospf protocol need to elect DR and BDR? (Multiple Choice)

A. Broadcast type

B. Point-to-point type

C. Point-to-multipoint

D. NBMA

Answer: AD

8. Regarding the static routing, which of the following is incorrect?

A. Manual configuration by the network administrator

B. Routing information needs to be exchanged between routers

C. Cannot automatically adapt to changes in network topology

D. Low system performance requirements

Answer: B

9. At what frequency does the IEEE 802.11n standard support to work? (Multiple Choice)

A. 6GHz

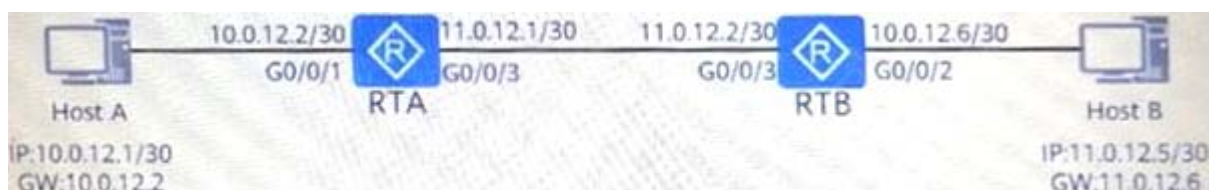
B. 2.5GHz

C. 2.4GHz

D. 5GHz

Answer: CD

10. In the network as shown in the figure below, what commands can be entered on the router to make host A ping host B successfully? (Multiple Choice)



A. RTA: ip route-static 0.0.0.0 0.0.0.0 11.0.12.2

RTB: ip route-static 0.0.0.0 0.0.0.0 11.0.12.1

B. RTA: ip route-static 10.0.12.5 255.255.255.252 11.0.12.2

RTB: route-static 10.0.12.1 255.255.255.252 11.0.12.1

C. RTA: ip route-static 0.0.0.0 0.0.0.0 11.0.12.1

RTB: ip route-static 0.0.0.0 0.0.0.0 11.0.12.2

D. RTA: ip route-static 10.0.12.5 255.255.255.252 11.0.12.1

RTB: ip route-static 10.0.12.1 255.255.255.252 11.0.12.2

Answer: AB

11. Which one of the following commands can only view static routes on VRP operating platform?

- A. display IP routing-table
- B. display IP routing-table statistics
- C. display IP routing-table verbose
- D. display IP routing-table protocol static

Answer: D

12. The router running the ospf protocol can reach the FULL state after completing the LSDB synchronization.

- A. True
- B. False

Answer: A

13. All interfaces of the router belong to the same broadcast domain.

- A. True
- B. False

Answer: B

14. Which of the following protocol types does the ospf protocol support? (Multiple Choice)

- A. Point-to-multipoint
- B. Point-to-point type
- C. Broadcast type
- D. NBMA

Answer: ABCD

15. When using the ping command on the VRP platform, if you need to specify an IP address as the source address of the echo request message, which of the following parameters should be used?

- A. -d
- B. -a
- C. -s
- D. -n

Answer: B

16. Which of the following ospf protocol packets can ensure the reliability of LSA updates?

- A. DD
- B. LSR
- C. LSU
- D. LSACK

Answer: D

17. What kinds of stable states does the neighbor relationship of OSPF protocol have? (Multiple Choice)

- A. 2-way
- B. Full
- C. Down
- D. attempt

Answer: ABC

18. All interfaces of routers running ospf protocol must belong to the same area.

- A. True
- B. False

Answer: B

19. Dynamic routing protocols can automatically adapt to changes in network topology.

- A. True
- B. False

Answer: A

20. As shown in the figure below, host A and host B cannot communicate.



- A. True
- B. False

Answer: B

21. As shown in the figure, when the switch needs to forward the frame with the destination mac address of 5489-98ec-f011, which of the following descriptions is correct?

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

MAC Address	VLAN/VSI	Learned-From	Type
5489-98ec-f01B	1/-	GE0/0/13	dynamic

Total items displayed = 3

- A. The switch will send a message that the destination is unreachable to the source device
- B. The switch does 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 flood the frame on all ports except the port that received the frame

Answer: D

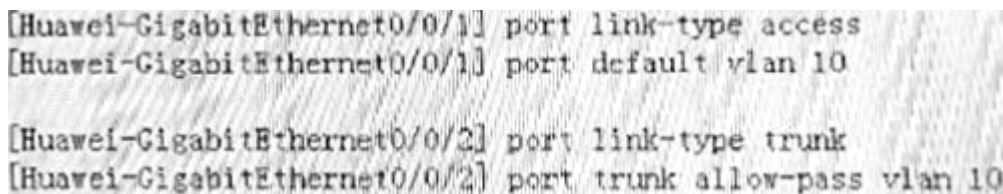
22. According to the command output as shown in the figure, which of the following descriptions is correct?
(Multiple Choice)

```
#
interface GigabitEthernet0/0/1
 port link-type trunk
 port trunk allow-pass vlan 2 to 4094
#
```

- A. GigabitEthernet0/0/1 allows VLAN1 to pass
- B. GigabitEthernet0/0/1 does not allow VLAN1 to pass
- C. If you want to change GigabitEthernet0/0/1 to an Access port, you first need to use the command "undo port trunk allow-pass vlan all"
- D. If you want to change GigabitEthernet0/0/1 to an Access port, you first need to use the command "undo port trunk allow-pass vlan 2 to 4094"

Answer: AD

23. According to the command shown in the figure, which of the following descriptions is correct? (Multiple Choice)



```
[Huawei-GigabitEthernet0/0/1] port link-type access
[Huawei-GigabitEthernet0/0/1] port default vlan 10

[Huawei-GigabitEthernet0/0/2] port link-type trunk
[Huawei-GigabitEthernet0/0/2] port trunk allow-pass vlan 10
```

- A. The PVID of GigabitEthernet0/0/1 port is 1
- B. The PVID of GigabitEthernet0/0/2 port is 1
- C. The PVID of the GigabitEthernet0/0/2 port is 10
- D. The PVID of GigabitEthernet0/0/1 port is 10

Answer: BD

24. If an Ethernet data frame is Length/type=0x8100, which of the following statements is correct?

- A. There must be a UDP header in the upper layer of this data frame
- B. There must be a TCP header in the upper layer of this data frame
- C. This data frame must carry vlan TAG
- D. There must be an IP header in the upper layer of this data frame

Answer: C

25. The bridge ID of the STP protocol in the switching network is as follows. Which of the following bridge ID switches will become the root bridge?

- A. 4096 00-01-02-03-04-DD
- B. 32768 00-01-02-03-04-AA
- C. 32768 00-01-02-03-04-BB
- D. 32768 00-01-02-03-04-CC

Answer: A

26. Regarding the election of active ports in link aggregation LACP mode, which of the following is correct?

- A. Compare the priority of the interface first, if it is impossible to determine the better one, continue to compare the interface number, the smaller the better
- B. Only compare interface priority
- C. Compare device priority
- D. Only compare interface numbers

Answer: A

27. The mac address of the existing switch is shown in the figure. Which of the following statements is correct?

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

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

Total matching items on slot 0 displayed = 1

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

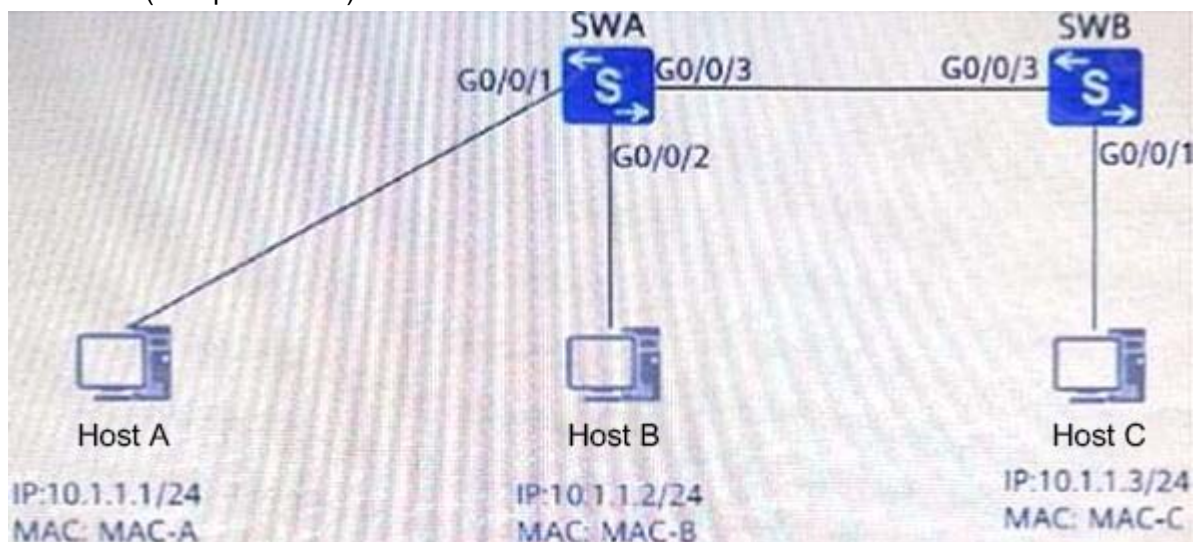
MAC Address	VLAN/ VSI/SI	PEVLAN	CEVLAN	Port	Type	LSP/LSR-ID MAC-Tunnel
5489-989d-1d30 1	-	-	-	Eth0/0/1	dynamic	0/-
5489-9885-18a8 1	-	-	-	Eth0/0/2	dynamic	0/-

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 data frame with the source mac address of 5489-9811-0b49 and the destination mac address of 5489-989d-1d30 learned from the port 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: B

28. As shown in the figure below, all hosts can communicate normally. Which of the following statements is correct? (Multiple Choice)



- A. G0/0/3 of SWB learned 2 mac addresses
- B. G0/0/3 of SWA learned 1 mac address
- C. G0/0/3 of SWA learned 2 mac addresses
- D. G0/0/3 of SWA learned 3 mac addresses

Answer: AB

29. Which of the following statements about the Hybrid port are correct?

- A. Hybrid port can strip off the tags of some vlan frames in the outgoing port direction
- B. When the Hybrid port sends data frames, it must carry the vlan tag
- C. Hybrid port only receives data frames with VLAN tag
- D. Hybrid port does not require PVID

Answer: A

30. The function of `telnet.read_very_eager` in `Telnetlib` is to read data of non-blocking, usually need to be used with the time module.

- A. True
- B. False

Answer: A

31. Which of the following are not open interfaces for Huawei network equipment?

- A. RE TCONF
- B. JSON
- C. XML
- D. NETCONF

Answer: A

32. For switches running STP protocol, the port can be directly converted to the Disabled state in any state.

- A. True
- B. False

Answer: A

33. The IPv6 address `2001:ABEF:224E:FFE2:BCCO:CDOO:DDBE:8D58` cannot be abbreviated.

- A. True
- B. False

Answer: A

34. Using the commands `"vlan batch 10 20"` and `"valn batch 10 to 20"`, how many VLANs can be created respectively?

- A. 11 and 11
- B. 2 and 2
- C. 11 and 2
- D. 2 and 11

Answer: D

35. The second layer switch belongs to the data link layer device, which can identify the mac address information in the data frame, forward data according to the mac address, and record these mac addresses and corresponding port information in its own mac address table.

- A. True
- B. False

Answer: A

36. In the configuration BPDU sent by the switch, which bridge ID is unlikely to appear?

- A. 8192 00-01-02-03-04-CC
- B. 2048 00-01-02-03-04-CC
- C. 4096 00-01-02-03-04-CC
- D. 0 00-01-02-03-04-CC

Answer: B

37. If the configured ACL rule has an inclusion relationship, it should be noted that the rule number of the strict condition needs to be sorted first, and the rule number of the loose condition needs to be sorted later, to prevent the packet from hitting the loose condition rule and stop continuing to match, thus make it impossible to hit the strict conditions of the rules.

- A. True
- B. False

Answer: A

38. The network administrator configures as shown in the figure on the Huawei router RTA, if a user needs to be authenticated in the authentication domain "huawei", which of the following descriptions is correct?

[RTA] aaa

[RTA-aaa] domain huawei

[RTA-aaa-domain huawei] authentication-scheme au1

[RTA-aaa domain-huawei] authentication-scheme au2

- A. "authentication-scheme au1" authentication will be used
- B. "authentication-scheme au1" 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, "au1" authentication will be used
- D. "authentication-scheme au2" authentication will be used

Answer: C

39. What is the number range of Layer 2 ACL?

- A. 4000-4999
- B. 2000-2999
- C. 6000-6031
- D. 3000-3999

Answer: A

40. What is the number range of advanced ACL?

- A. 2000-2999
- B. 4000-4999

C. 6000-6031

D. 3000-3999

Answer: D

41. If the result of the packet matching ACL is "reject", the packet is eventually discarded.

A. True

B. False

Answer: B

42. Which of the following message types does DHCP contain?

A. DHCP OFFER

B. DHCP REQUEST

C. DHCP ROLLOVER

D. DHCP DISCOVER

Answer: ABD

43. What is the main role of the DNS protocol?

A. File transfer

B. Remote access

C. Domain name resolution

D. Mail transmission

Answer: C

44. Which of the following protocols is not a file transfer protocol?

A. FTP

B. SFTP

C. HTTP

D. TFTP

Answer: C

45. Only the security policy of WPA2-PSK supports to use TKIP for data encryption.

A. True

B. False

Answer: B

46. Which of the following does not include the advantages of Wi-Fi 6 compared to Wi-Fi 5?

A. Higher consumption

B. Higher number of access terminals per AP

C. Lower transmission delay

D. Higher bandwidth

Answer: A

47. The port number used for CAPWAP control tunnel and data tunnel transmission is the same.

A. True

B. False

Answer: B

48. What is the first operation performed by the FIT AP after obtaining the AC's IP address?

- A. Establish a CAPWAP tunnel
- B. Request a configuration file
- C. Download the configuration file
- D. Upgrade the software version

Answer: A

49. Before STA associates with AP, it needs to exchange some messages to obtain SSID, what are these messages? (Multiple Choice)

- A. Probe Response
- B. Probe Request
- C. Beacon
- D. Discovery

Answer: BC

50. Based on what concept that the segment routing (SR) is a protocol designed to forward data packets on the network?

- A. Policy routing
- B. Source routing
- C. Routing strategy
- D. Destination routing

Answer: B

51. In PPP, when the two ends of the communication detect that the physical link is activated, it will transition from the link unavailability stage to the link establishment stage. At this stage, the link parameter negotiation is mainly carried out through the () protocol.

- A. IP
- B. LCP
- C. NCP
- D. DHCP

Answer: C

52. SNMP V1 defines 5 protocol operations.

- A. True
- B. False

Answer: A

53. The management information base (MIB) is a virtual database that only exists on the NMS.

- A. True
- B. False

Answer: B

54. There is a TTL field in the IP packet header. Which of the following statement about the field is correct?

- A. This field is used for packet loop prevention
- B. This field is used for packet fragmentation
- C. This field is used to indicate the priority of the data packet
- D. The field length is 7 bits

Answer: A

55. How many Bytes does the length of the IPv6 basic header is?

- A. 40
- B. 48
- C. 32
- D. 64

Answer: A

56. Which field in the IPV6 header is like the TTL field in the IPV4 header?

- A. hop limit
- B. Next header
- C. Traffic class
- D. Version

Answer: A

57. The role of telnet.read.all in telnetlib is to read all data until EOF. If the echo does not return EOF, it will block consistently

- A. True
- B. False

Answer: B

58. In the SNMP protocol by default, which port number does the agent process use to send alarm messages to the NMS?

- A. 161
- B. 163
- C. 164
- D. 162

Answer: D

59. If the MAC address of an interface is 00E0-FCEF-0FEC, then what is the corresponding EUI-64 address?

- A. 00E0-FCEF-FFFE-0FEC
- B. 02E0-FCFF-FEEF-0FEC
- C. 00E0-FCFF-FEEF-0FEC
- D. 02E0-FCEF-FFFE-0FEC

Answer: B

60. To query the configuration information of the device ospf protocol, which of the following commands can be used?

- A. Enter the command "display this" in the ospf protocol view
- B. Display current-configuration
- C. Display ospf peer
- D. Dis ip routing-table

Answer: A

61. The ARP protocol can resolve the mac address of the target device according to the destination IP address, to realize the mapping between the mac address and the IP address.

- A. True
- B. False

Answer: A

62. In the VRP interface, use the command startup saved-configuration backup.cfg to configure the backup.cfg file to be used for the next startup.

- A. True
- B. False

Answer: A

63. Which way does VRP not support router configuration?

- A. Configure the router through the mini USB port
- B. Configure the router via FTP
- C. Configure the router through the console port
- D. Configure the router via telnet

Answer: B

64. When routers are running in the same ospf area, which of the following about the description of their LSDB and routing table is correct? (Multiple Choice)

- A. The link state database obtained by all routers is the same
- B. All routers get the same routing table
- C. The link state database obtained by each router is different
- D. The routing table of each router is different

Answer: AD

65. Which of the following statements is correct?

- A. The router works at the network layer
- B. The switch works at the physical layer
- C. The switch works at the network layer
- D. The router works at the physical layer

Answer: A

66. After the network administrator uses the Tracert Route function on the router device, what is the value of the protocol field in the IPV4 header of the data packet sent by the router?

- A. 1
- B. 2
- C. 6
- D. 17

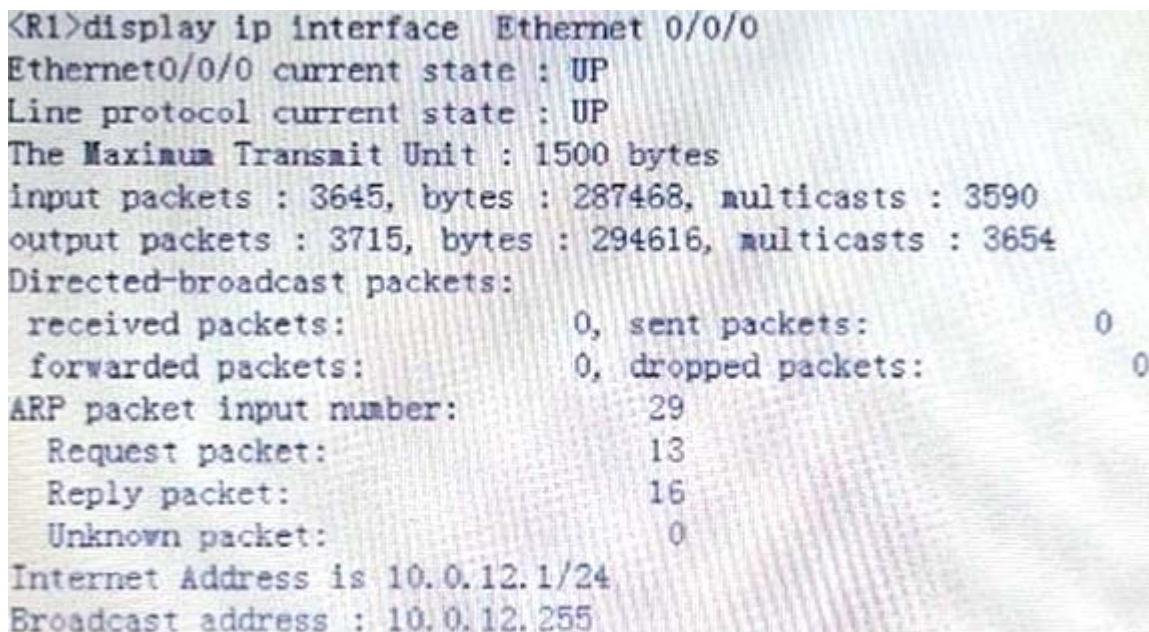
Answer: D

67. Which of the following protocols are dynamic routing protocols? (Multiple Choice)

- A. Direct
- B. static
- C. BGP
- D. OSPF

Answer: CD

68. The output information of the router is shown in the figure. Which of the following statements is wrong?



```
<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 : 287468, 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: 29
  Request packet:      13
  Reply packet:        16
  Unknown packet:      0
Internet Address is 10.0.12.1/24
Broadcast address : 10.0.12.255
```

- A. The broadcast address corresponding to the Ethernet0/0/0 interface is 10.0.12.255
- B. The physical link of the Ethernet0/0/0 interface is normal
- C. The MTU value of the Ethernet0/0/0 interface is 1480
- D. The IP address of the Ethernet0/0/0 interface is 10.0.12.1/24

Answer: C

69. When configuring ospf on a router, what must be configured manually?

- A. Specify the network type of each ospf-enabled interface
- B. Create an ospf zone
- C. Create an ospf process
- D. Configure Router ID

Answer: B

70. The following figure shows the routing table of a router. When the router receives a data packet with a destination IP address of 9.1.1.1, the router will forward it according to the route of 9.1.0.0/16 because the mask length of the route is longer.

<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	20.0.0.2	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: A

71. If the network address of a network is 10.1.1.0/30, then what is its broadcast address?

- A. 10.1.1.3
- B. 10.1.1.1
- C. 10.1.1.4
- D. 10.1.1.2

Answer: A

72. The administrator has configured as shown in the figure on R1, but R1 cannot learn the routes of other routers, so what is the possible reason? (Multiple Choice)

[R1] ospf

[R1-ospf-1] area 1

[R1-ospf-1-area-0.0.0.1] network 10.0.12.0 0.0.0.255

- A. This router did not announce the network connected to neighbors when configuring ospf
- B. This router is not configured with authentication function, but the neighbor router is configured with authentication function
- C. When this router is configured, the ospf process ID is not configured
- D. The area ID configured by this router is different from the area ID of its neighbor router

Answer: ABD

73. The router running the ospf protocol reaches the FULL state first, and then performs LSDB synchronization.

- A. True

B. False

Answer: B

74. Which type of message is used by network devices running SNMPv1 protocol to actively send alarm information?

- A. Trap
- B. Response
- C. Get-Next Request
- D. Get-Request

Answer: A

75. Regarding the information as shown in the figure, which of the following is incorrect?

[R1] display interface g0/0/0

GigabitEthernet0/0/0 current state: Administratively DOWN

Line protocol current state: DOWN

- A. The wrong cable is connected to the GigabitEthernet0/0/0 interface
- 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. GigabitEthernet0/0/0 interface does not enable dynamic routing protocol

Answer: C

76. What is the hello message function of ospf? (Multiple Choice)

- A. Neighbor discovery
- B. Synchronize the LSDB of the router
- C. Update LSA information
- D. Maintain neighbor relations

Answer: AD

77. The output information of a router's routing table is shown in the figure. Which of the following statements is correct? (Multiple Choice)

<R1>display ip routing-table

Route Flags: R - relay, D - download to fib

Routing Tables: Public

Destinations : 10 Routes : 10

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
10.0.0.0/8	Static	60	0	RD	10.0.12.2	Ethernet0/0/0
10.0.2.2/32	Static	60	0	RD	10.0.21.2	Ethernet0/0/1

- A. The outbound interface of this router to 10.0.0.1 is Ethernet0/0/1
- B. The outbound interface of this router to 10.0.0.1 is Ethernet0/0/0

- C. The outbound interface of this router to 10.0.2.2 is Ethernet0/0/0
- D. The outbound interface of this router to 10.0.2.2 is Ethernet0/0/1

Answer: BD

78. Regarding the main functions of the router, which of the following statement is incorrect? (Multiple Choice)

- A. Guide data forwarding according to the routing table
- B. Establish routing tables through multiple protocols
- C. Realize mutual communication between devices on the same network segment
- D. Forwarding according to the source IP address of the received data packet

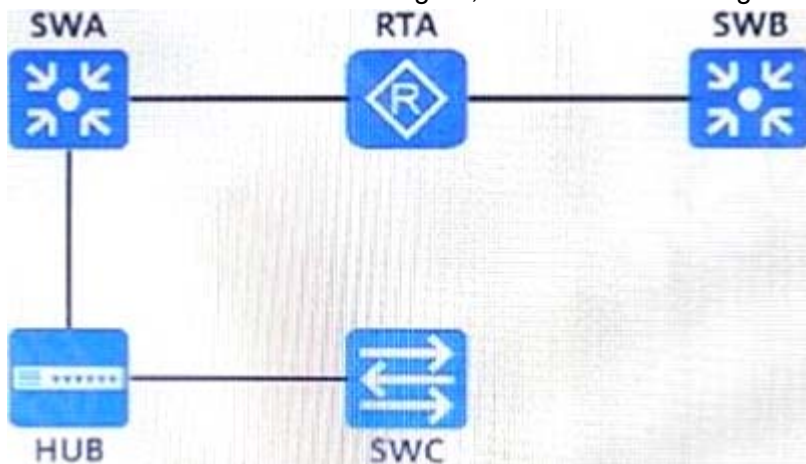
Answer:

79. If the Ethernet data frame Length/type=0x0806, which of the following statement is correct? (Multiple Choice)

- A. The destination mac address of this data frame may be FFFF-FFFF-FFFF
- B. This data frame is Ethernet II frame
- C. The source mac address of this data frame must not be FFFF-FFFF-FFFF
- D. This data frame is an IEEE802.3 frame

Answer: ABC

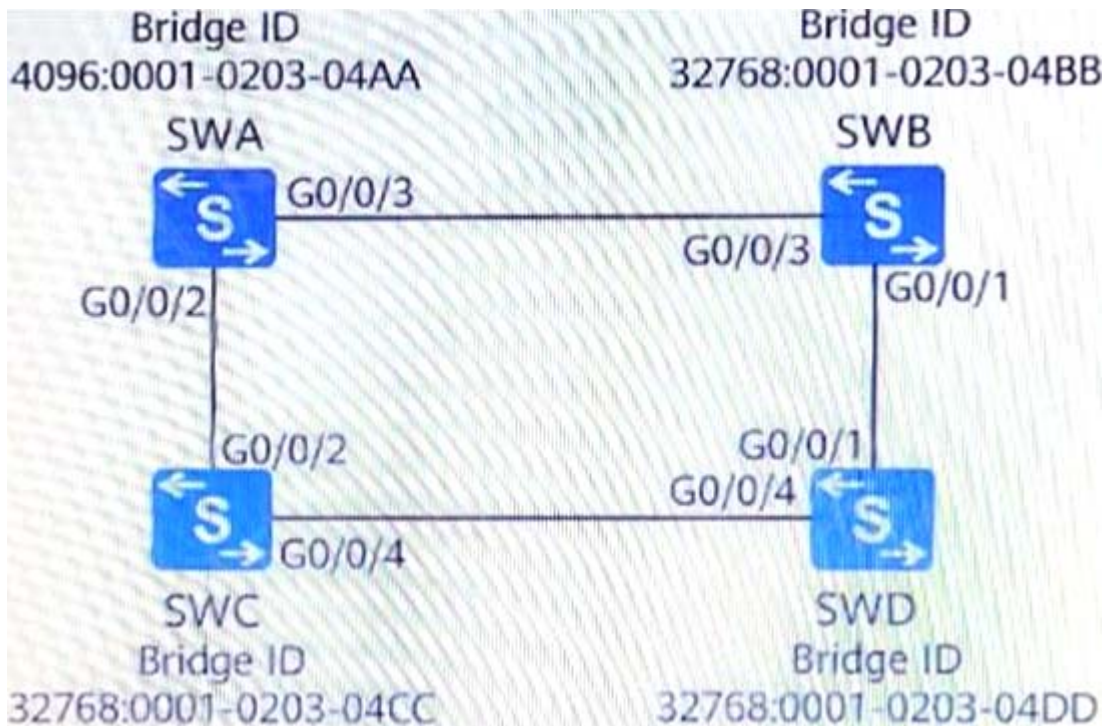
80. In the network shown in the figure, which of the following descriptions is correct? (Multiple Choice)



- A. The network between RTA and SWC is the same conflict domain
- B. The network between SWA and SWB is the same broadcast domain
- C. The network between SWA and SWC is the same conflict domain
- D. The network between SWA and SWC is the same broadcast domain

Answer: CD

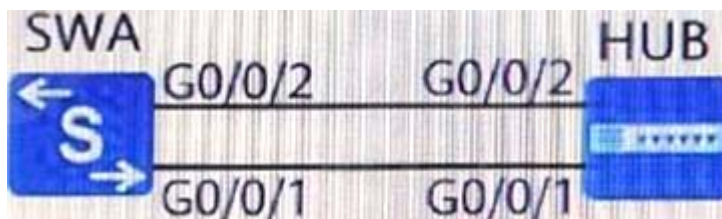
81. All switches in the figure below have the STP protocol enabled. Assuming that the path cost value of all ports is 200, what is the root path cost value contained in the configuration BPDU message received by the G0/0/4 port of SWD?



- A. 600
- B. 200
- C. 0
- D. 400

Answer: D

82. As shown in the figure, the switch runs STP with default parameters, which of the following ports will be elected as the designated port?



- A. G0/0/1 port of switch A
- B. HUB's G0/0/1 port
- C. HUB's G0/0/2 port
- D. G0/0/2 port of switch A

Answer: A

83. The network administrator has captured a data frame on the network, and its destination MAC address is 01-00-5E-A0-B1-C3.

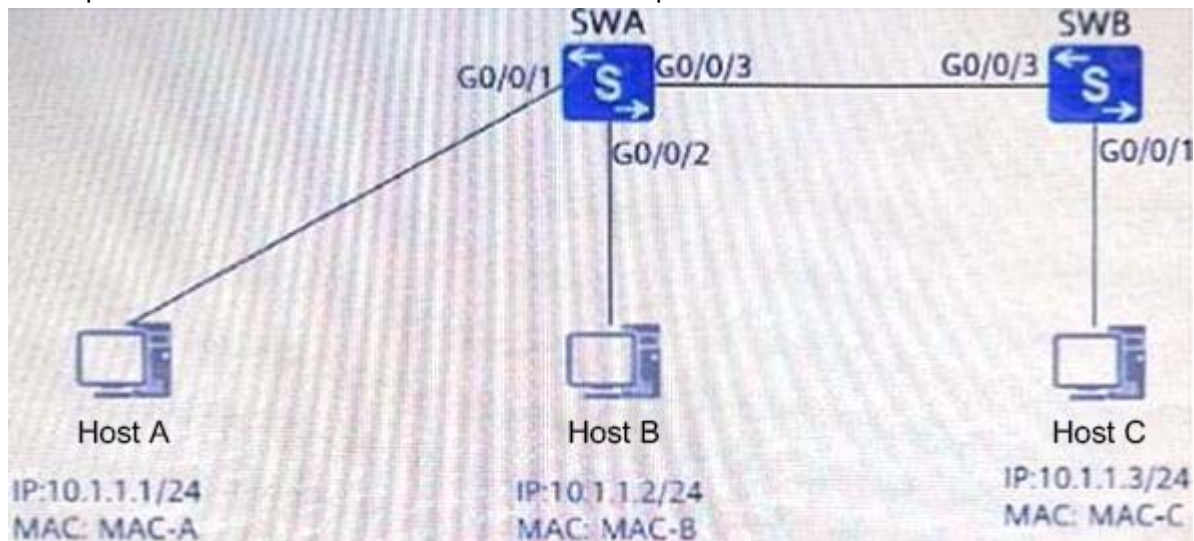
Which of the statement about the mac address is correct?

- A. It is a multicast MAC address
- B. It is a unicast MAC address
- C. It is an illegal MAC address

D. It is a broadcast MAC address

Answer: A

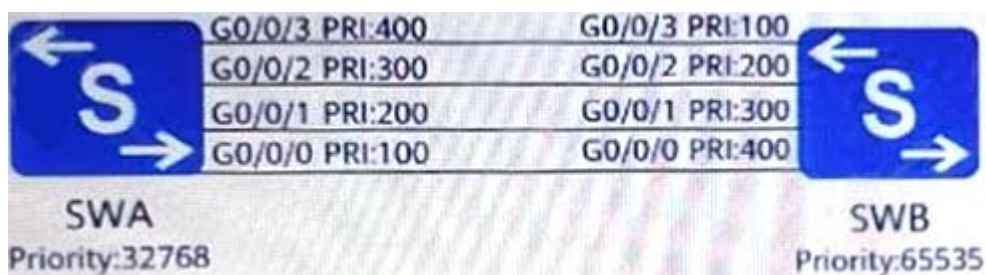
84. As shown in the figure below, all hosts can communicate normally, so what is the correct correspondence between the MAC address and the port in the MAC address table of the SWB?



- A. MAC-A G0/0/1
MAC-B G0/0/2
MAC-C G0/0/3
- B. MAC-A G0/0/2
MAC-B G0/0/2
MAC-C G0/0/3
- C. MAC-A G0/0/3
MAC-B G0/0/3
MAC-C G0/0/1
- D. MAC-A G0/0/1
MAC-B G0/0/1
MAC-C G0/0/3

Answer:

85. 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 Active port?



- A. G0/0/0
- B. G0/0/1

C. G0/0/2

D. G0/0/3

Answer: D

86. Which of the following stages is not included in the process of PPPoE session establishment and termination?

A. Discovery stage

B. Data forwarding stage

C. Session stage

D. Session termination stage

Answer: B

87. Which of the following parameters need to be considered when electing the root port in STP? (Multiple Choice)

A. The mac address of the port

B. Port priority

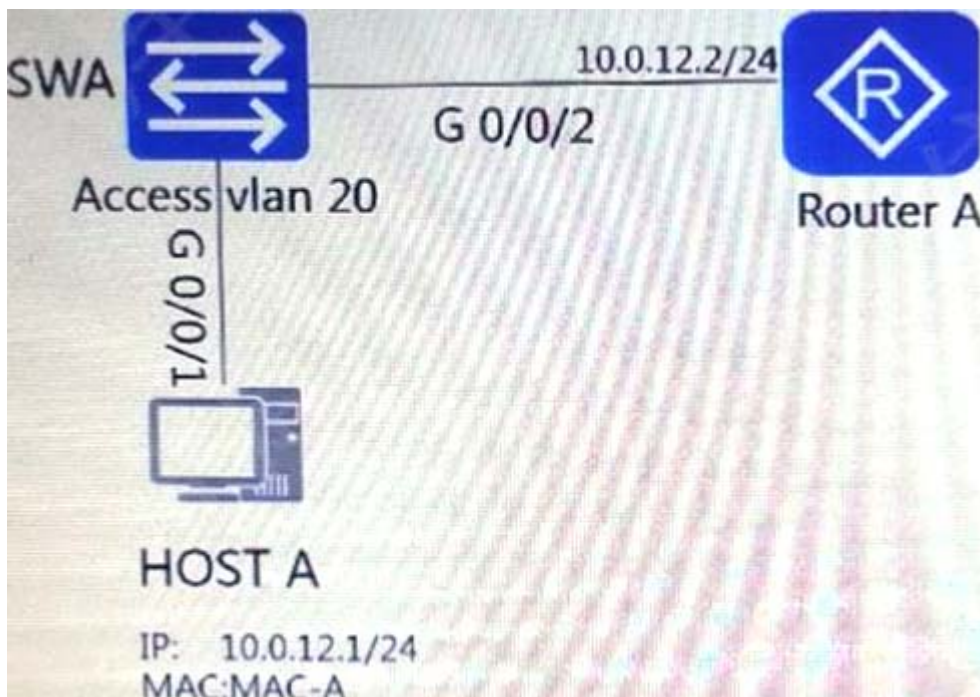
C. Port slot number, such as G0/0/1

D. Duplex mode of the port

E. The cost of the port reaching the root switch

Answer: BCE

88. As shown in the figure below, the router uses a sub-interface as the host gateway and the gateway IP address is 10.0.12.2. Which of the following commands can achieve this requirement? (Multiple Choice)



A. interface GigabitEthernet0/0/0.20

dot1q termination vid 10

Ip address 10.0.12.2 255.255.255.0

arp broadcast enable

#

```
B. interface GigabitEthernet0/0/0.10
dot1q termination vid 10
Ip address 10.0.12.2 255.255.255.0
arp broadcast enable
```

#

```
C. interface GigabitEthernet0/0/0.20
dot1q termination vid 20
Ip address 10.0.12.2 255.255.255.0
arp broadcast enable
```

#

```
D. interface GigabitEthernet0/0/0.10
dot1q termination vid 20
Ip address 10.0.12.2 255.255.255.0
arp broadcast enable
```

#

Answer: CD

89. Which of the following statements about the election of the active end in link aggregation LACP mode is correct? (Multiple Choice)

- A. Compare interface numbers
- B. The smaller the priority value has priority, if the same, compare the device MAC, the smaller the better
- C. The device with a small system priority value is used as the active end
- D. The device with a small MAC address acts as the active end

Answer: BC

90. If the value of the type/Length field of an Ethernet data frame is 0x0800, the length of the upper layer message header carried by this data frame is in the range of 20-60B.

- A. True
- B. False

Answer: A

91. The IP address of the VLANIF interface of the same switch cannot be the same.

- A. True
- B. False

Answer: A

92. Which of the following commands configures the authentication mode as HWTACAS authentication?

- A. authentication-mode hwtacacs
- B. authentication-mode none
- C. Authorization-mode hwtacacs
- D. Authorization-mode local

Answer: A

93. The host uses the IP address 192.168.1.2 to access the Internet through NAT.

- A. True
- B. False

Answer: A

94. Layer 2 ACL can match information such as source MAC, destination MAC, source ip, destination IP.

- A. True
- B. False

Answer: B

95. Which of the following statements about the S field in the MPLS packet header are correct? (Multiple Choice)

- A. The S bit exists in every MPLS packet header
- B. It is used to mark whether there are other labels behind this label, 0 means yes, 1 means no
- C. The S bit has only 1 bit in the frame mode and 2 bits in the cell mode
- D. It is used to mark whether there are other labels behind this label, 1 means yes, 0 means no

Answer: AD

96. Which of the configurations in the following options belong to the second-layer acl? (Multiple Choice)

- A. rule 25 permit source 192.168.1.1 0.0.0.0
- B. rule 10 permit 12-protocol arp
- C. rule 25 permit source-mac 0203-0405-0607
- D. rule 25 permit vlan-id 100

Answer: CD

97. The administrator has configured as shown in the figure on the router, then what kind of IP address can a host connected to the G1/0/0 interface of the router obtain through DHCP?

```
[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 obtain an address

Answer: A

98. A DHCP server is deployed in the network, but the administrator found that some hosts did not correctly obtain the address specified by the DHCP server. What are the possible reasons? (Multiple Choice)

- A. Some hosts cannot communicate with the DHCP server normally, and the client systems of these hosts automatically generate addresses in the range of 172.254.0.0
- B. There is another DHCP server that works more efficiently in the network
- C. Some hosts cannot communicate with the DHCP server normally, and the client systems of these hosts automatically generate addresses in the range of 169.254.0.0
- D. The address pool of the DHCP server has all been allocated

Answer: BCD

99. What is the IEEE802.11 standard corresponding to Wi-Fi6?

- A. IEEE802.11au
- B. IEEE802.11ac
- C. IEEE802.11ax
- D. IEEE802.11at

Answer: C

100. WiFi6 actually refers to the IEEE802.11ax standard.

- A. True
- B. False

Answer: A

101. Which WLAN security policies support the link authentication method of open mode? (Multiple Choice)

- A. WPA2-802.1X
- B. WPA
- C. WPA2-PSK
- D. WEP

Answer: ABCD

102. There is no channel overlap in the 14 available frequency bands in the 2.4 GHz frequency band.

- A. True
- B. False

Answer: B

103. When AP and AC are in different three-layer networks, what method is recommended for AP to discover AC?

- A. DNS
- B. Manually specified on AP
- C. DHCP
- D. Broadcasting method

Answer: C

104. The data link layer uses ppp encapsulation, and the IP addresses at both ends of the link may not be in the same network segment.

- A. True
- B. False

Answer: A

105. FIT AP can work independently without relying on AC.

- A. True
- B. False

Answer: B

106. SNMP messages are carried over UDP.

- A. True
- B. False

Answer: A

107. The network management system can only view the operating status of the device through the SNMP protocol, but cannot issue the configuration.

- A. True
- B. False

Answer: B

108. Which of the following types does the IPV6 address contain? (Multiple Choice)

- A. Anycast address
- B. Multicast address
- C. Unicast address
- D. Broadcast address

Answer: ABC

109. What is the total length of the IPV6 address in bits?

- A. 64
- B. 96
- C. 128
- D. 32

Answer: C

110. When using the SNMPv1 protocol to manage network equipment, which of the following commands is used by the network management system to complete the configuration of the network equipment?

- A. Get-Request
- B. Response
- C. Set Request
- D. Get-Next Request

Answer: C

111. Virtualization is the basis for realizing NFV. Which of the following statements about the characteristics of virtualization is correct? (Multiple Choice)

- A. Isolation: Virtual machines on the same physical server are isolated from each other
- B. Partitioning: Multiple virtual machines can run on a single physical server at the same time
- C. Encapsulation: All virtual machines share the operating system, and the encapsulation is realized through the command space
- D. Hardware independence: Virtual machine and hardware decoupling, support virtual machine migration between servers

Answer: ABCD

112. Regarding the concept of NFV architecture, which of the following is correct? (Multiple Choice)

- A. VNFM, virtual network function management, responsible for the life cycle management of VNF
- B. NFVO (NFV Orchestrator) is responsible for business orchestration
- C. MANO is composed of NFVO, VNFM and VIM
- D. VIM (Virtualized Infrastructure Manager) virtual resource management, responsible for the virtualization of infrastructure

Answer: ABCD

113. Which of the following commands can modify the device name to huawei?

- A. sysname huawei
- B. rename huawei
- C. do name huawei
- D. hostname huawei

Answer: A

114. On the VRP platform, which of the following methods can be used to access the previous history command? (Multiple Choice)

- A. Ctrl+P
- B. Up cursor
- C. Ctrl+U
- D. Left cursor

Answer: AB

115. Since the TCP protocol uses a three-way handshake system when establishing a connection and closing a connection, so TCP supports reliable transmission.

- A. True
- B. False

Answer: B

116. The login time-out period in the VRP system can only be set under the VTY interface.

- A. True
- B. False

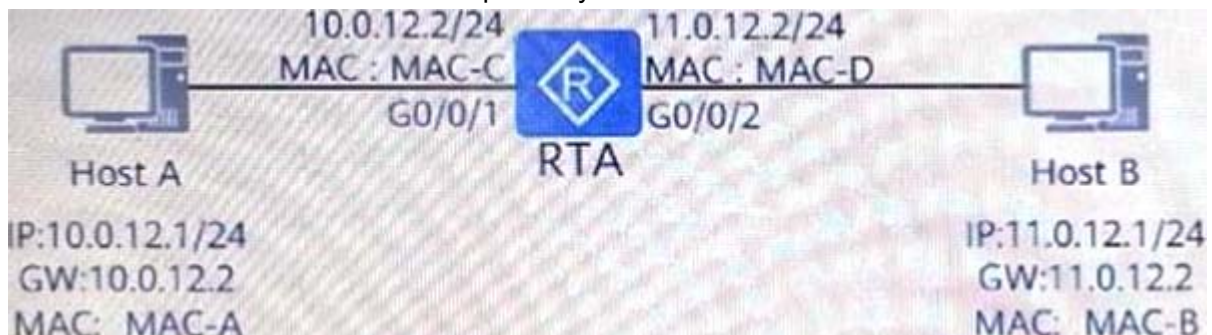
Answer: B

117. Which of the following types of ACL can match the transport layer port number?

- A. Advanced ACL
- B. Basic ACL
- C. Layer 2 ACL
- D. Intermediate ACL

Answer: A

118. 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. After this data packet is forwarded by the router, what are the destination mac and destination IP respectively?



- A. MAC-D 10.0.12.2
- B. MAC-D 11.0.12.1
- C. MAC-C 11.0.12.1
- D. MAC-B 11.0.12.1

Answer: D

119. Which equipment is generally involved in the WLAN deployment plan in the enterprise scenario?

(Multiple Choice)

- A. AC (Access Controller)
- B. AP
- C. PoE switch
- D. CPE

Answer: ABC

120. The routing table is shown in the figure, which of the following statements is correct? (Multiple Choice)

```

<R1>display ip routing-table
Route Flags: R - relay, D - download to fib

Routing Tables: Public
    Destinations : 14      Routes : 15

Destination/Mask    Proto    Pre    Cost    Flags NextHop         Interface
10.0.2.2/32        Static   60     0       RD    10.0.12.2         Ethernet0/0/0
10.0.3.3/32        Static   60     0       RD    10.0.2.2          Ethernet0/0/0
10.0.12.0/24       Direct   0       0       D     10.0.12.1         Ethernet0/0/0
10.0.12.1/32       Direct   0       0       D     127.0.0.1         Ethernet0/0/0

```

- A. The router forwards data packets with a destination IP of 10.0.2.2 from Ethernet0/0/0
- B. The NextHop of the destination network 10.0.3.3/32 is not directly connected, so the router will not forward packets with the destination IP address 10.0.3.3.
- C. The router forwards data packets with a destination IP of 10.0.3.3 from Ethernet0/0/0
- D. The router forwards data packets with a destination IP of 10.0.12.1 from Ethernet0/0/0

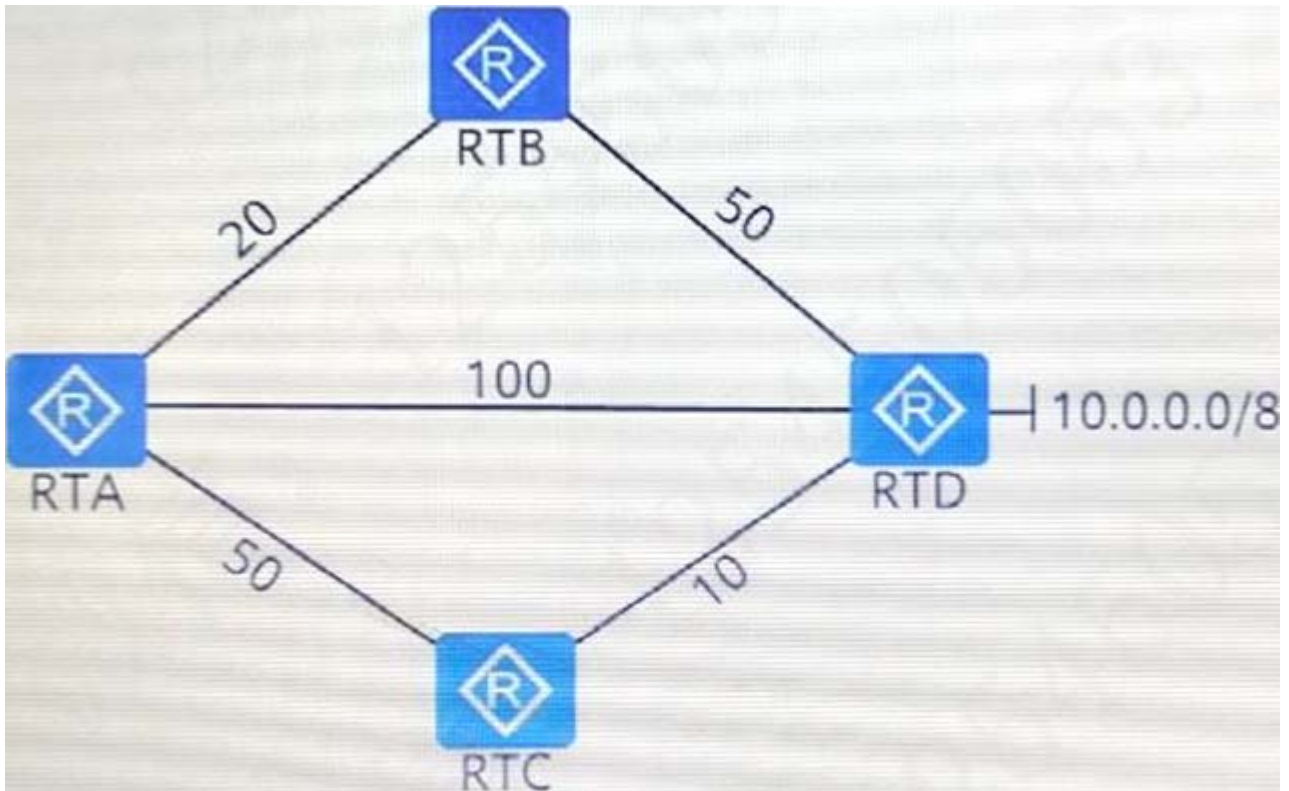
Answer: AC

121. In order to detect the connectivity status of the CAPWAP tunnel, after the CAPWAP tunnel is established, which of the following CAPWAP messages is used by the AC for detection? (Multiple Choice)

- A. Keepalive
- B. Echo
- C. DPD
- D. Hello

Answer: AB

122. In the network shown in the figure below, all routers run the OSPF protocol, and the link cost value is as 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?



- A. 100
- B. 70
- C. 20
- D. 60

Answer: D

123. As shown in the figure below, which of the following statements is correct?



- A. Host A can ping host B successfully
- B. Only when 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 of host A and host B are different, so host A and host B cannot communicate
- D. The broadcast address of host A and host B are the same

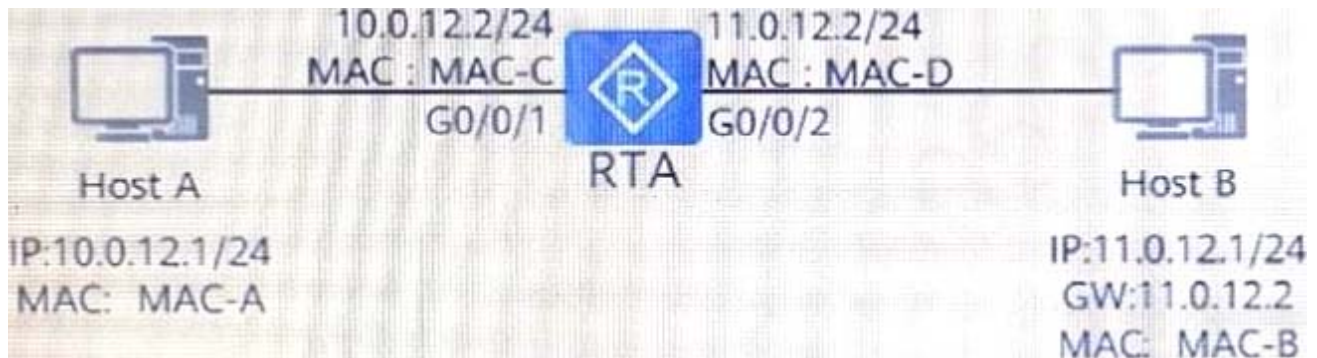
Answer: A

124. When two OSPF routers form a 2-WAY neighbor relationship, the LSDB has completed synchronization.

- A. True
- B. False

Answer: B

125. In the network shown in the figure below, host A is not configured with a gateway, and host B has the ARP cache of the gateway. Which of the following statements is correct? (Multiple Choice)



- A. Enable ARP proxy on port G0/0/1 of the router, then host A can communicate with host B
- B. The data packet sent by host B with the destination IP address 10.0.12.1 can be forwarded to host A
- C. The data packet sent by host A with the destination IP address 11.0.12.1 can be forwarded to host B
- D. Host A and Host B cannot communicate in both directions

Answer: ABC

126. Which of the following commands to configure the default route is correct?

- A. [huawei] ip route-static 0.0.0.0 0.0.0.0 0.0.0.0
- B. [huawei] ip route-static 0.0.0.0 255.255.255.255 192.168.1.1
- C. [huawei-Serial0] ip route-static 0.0.0.0 0.0.0.0 0.0.0.0
- D. [huawei] ip route-static 0.0.0.0 0.0.0.0 192.168.1.1

Answer: D

127. What kind of state does the OSPF protocol use to indicate that the neighbor relationship has been established?

- A. Completed
- B. Down
- C. 2-way
- D. Attempt

Answer: C

128. The network administrator hopes to be able to effectively use the IP address of the 192.168.176.0/25 network segment.

Now the company's marketing department has 20 hosts, which of the following address segments is best allocated to the marketing department?

- A. 192.168.176.160/27
- B. 192.168.176.0/25
- C. 192.168.176.96/27
- D. 192.168.176.48/29

Answer: C

129. If the network address of a network is 192.168.1.0, then its broadcast address must be 192.168.1.255.

- A. True
- B. False

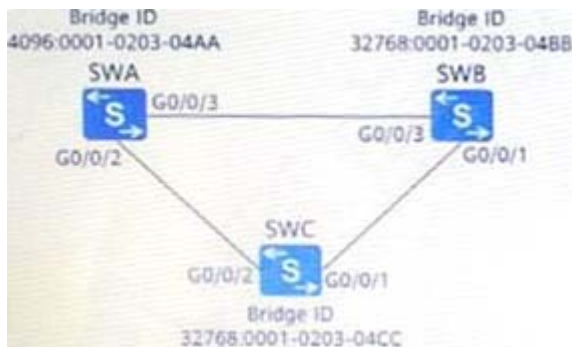
Answer: B

130. What are the functions of OSPF protocol DR and BDR? (Multiple Choice)

- A. Reduce the number of adjacencies
- B. Reduce the time to establish adjacency
- C. Reduce the types of OSPF protocol packets
- D. Reduce the number of exchanges of link state information

Answer: AD

131. As shown in the figure below, which port of the following switches will be blocked?



- A. G0/0/2 of SWC
- B. G0/0/3 of SWA
- C. G0/0/1 of SWC
- D. G0/0/3 of SWB

Answer: C

132. Access type ports will () when sending messages.

- A. Type the PVID information of this port, and then send it out
- B. Send messages with Tag
- C. Strip the VLAN information of the message, and then send it out
- D. Add the VLAN information of the message, and then send it out

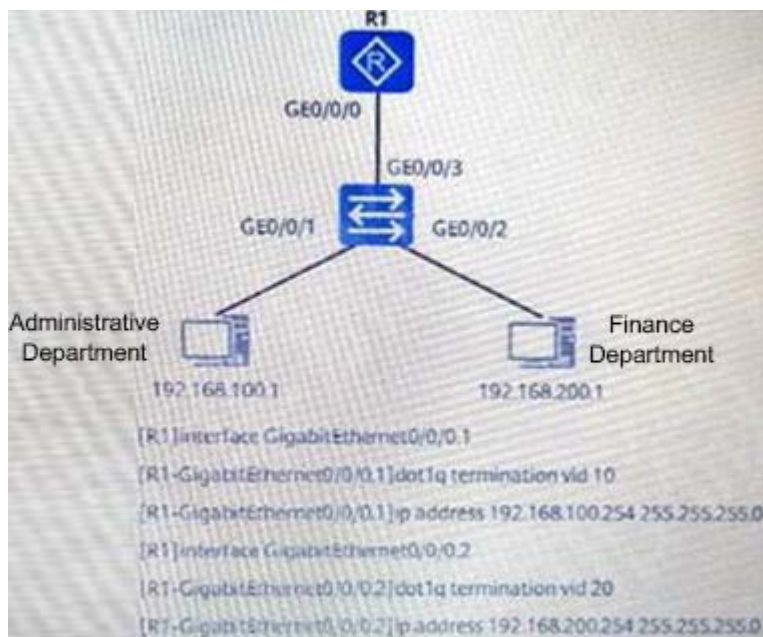
Answer: C

133. Which of the following port states does not include the RSTP protocol?

- A. Forwarding
- B. Learning
- C. Discarding
- D. Blocking

Answer: D

134. With reference to the single-arm routing configuration in the figure below, it can be judged that even if the ARP proxy is not enabled on the sub-interface of R1, the administrative department and the financial department can communicate with each other.



A. True

B. False

Answer: B

135. The configuration information of a certain port of the switch is shown in the figure, then the PVID of this port is:

#

```

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: D

136. The output information of a certain switch is shown in the figure. Which of the following statements is correct? (Multiple Choice)


```
[SWA]display vlan
The total number of vlans is : 5
```

U: Up,	D: Down,	TC: Tagged,	UT: Untagged,
MP: Vlan-mapping,	ST: Vlan-stacking,		
#: ProtocolTransparent-vlan,	*: Management-vlan,		

VLAN	Type	Ports
1	common	UT:GE0/0/1(D) GE0/0/4(D) GE0/0/5(D) GE0/0/6(D) GE0/0/7(D) GE0/0/8(D) GE0/0/9(D) GE0/0/10(D) GE0/0/11(D) GE0/0/12(D) GE0/0/13(D) GE0/0/14(D) GE0/0/15(D) GE0/0/16(D) GE0/0/17(D) GE0/0/18(D) GE0/0/19(D) GE0/0/20(D) GE0/0/21(D) GE0/0/22(D) GE0/0/23(D) GE0/0/24(D) TC:GE0/0/1(U)
10	common	UT:GE0/0/1(U) GE0/0/2(U)
20	common	TC:GE0/0/1(U)
30	common	TC:GE0/0/1(U)
40	common	TC:GE0/0/1(U)

- A. The GE0/0/1 port of the switch does not carry VLAN TAG when sending VLAN20 data frames
- B. The GE0/0/2 port of the switch carries VLAN TAG when sending VLAN20 data frames
- C. The GE0/0/1 port of the switch does not carry VLAN TAG when sending VLAN10 data frames
- D. The user manually created 4 VLANs

Answer: ACD

137. If an Ethernet data frame Length/Type=0x8100, which of the following ports may the data frame be sent from? (Multiple Choice)

- A. Trunk port of the switch
- B. Hybrid port of the switch
- C. Access type port of the switch
- D. Serial interface of the router

Answer: AB

138. The load sharing mode at both ends of the Eth-Trunk may be inconsistent.

- A. True
- B. False

Answer: A

139. The port in the Discarding state in RSTP will discard the received data frame, but it can maintain the MAC address table according to the data frame received by the port.

- A. True
- B. False

Answer: B

140. When LACP horizontal mode is used for link aggregation, what is the default system priority of Huawei switches?

- A. 36864
- B. 24576
- C. 4096
- D. 32768

Answer: D

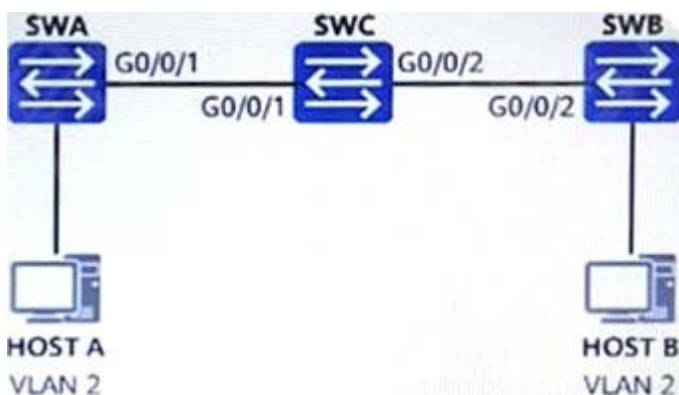
141. Regarding the Layer 2 Ethernet switch, which of the following statement is incorrect?

- A. Layer 2 Ethernet switches work at the data link layer
- B. Able to learn MAC address
- C. Need to make certain modifications to the layer 3 header of the forwarded message, and then forward it
- D. Forward according to the Layer 2 header information of the Ethernet frame

Answer: C

142. As shown in the figure, the network administrator creates VLAN2 on SWA and SWB, and configures the ports connecting the hosts on the two switches to Access port, which is assigned to VLAN2. G0/0/1 of SWA and G0/0/2 of SWB are configured as Trunk ports, allowing all VLANs to pass.

To achieve normal communication between two hosts, also need:



- A. Configure G0/0/1 on the SWC as a trunk port and allow VLAN 2 to pass through, set G0/0/2 port as an access port, and set the PVID to 2
- B. Create VLAN2 on SWC, configure G0/0/1 and G0/0/2 as trunk ports, and allow VLAN 2 to pass
- C. Just create VLAN2 on SWC
- D. Configure G0/0/1 on SWC as a trunk port and allow VLAN 2 to pass through

Answer: B

143. In the RSTP standard, in order to improve the convergence speed, the port that the switch is directly connected to the terminal can be defined as:

- A. Fast port
- B. Root port
- C. Backup port
- D. Edge port

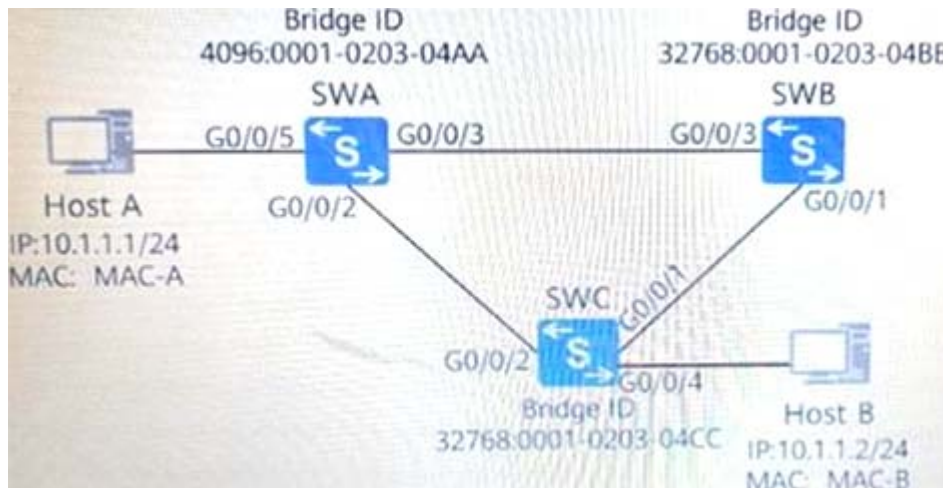
Answer: D

144. In a two-layer network with redundant links, which of the following protocols can be used to avoid loops?

- A. VRRP
- B. STP
- C. ARP
- D. UDP

Answer: B

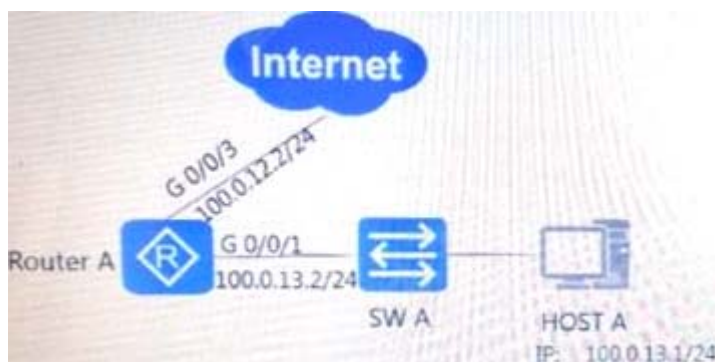
145. In the network as shown in the figure below, all switches enable the STP protocol. Disable the G0/0/2 port of SWA to configure the BPDU sending function, and G0/0/1 of SWC will reconverge to become the root port. Which of the following statements is correct about this process? (Multiple Choice)



- A. SWB forwards TCN BPDU to SWA
- B. SWB sends configuration BPDU with TCA set to SWC
- C. SWC sends TCN BPDU to SWB
- D. SWA sends configuration BPDU with TC set

Answer: ABC

146. In the network shown in the figure below, from a security perspective, Router A refuses to receive OSPF packets and ICMP packets received from the G0/0/1 interface. Which of the following commands can achieve this requirement? (Multiple Choice)



- A.

```
acl number 3000
rule 5 deny 89
rule 10 deny icmp
#
interface GigabitEthernet0/0/1
traffic-filter inbound acl 3000
#
```
- B.

```
acl number 3000
rule 5 deny 89
```

```
rule 10 deny 1
#
interface GigabitEthernet0/0/1
traffic-filter inbound acl 3000
#
C. acl number 2000
rule 5 deny 89
rule 10 deny 1
#
interface GigabitEthernet0/0/1
traffic-filtet inbound acl 2000
#
D. acl number 3000
rule 5 deny ospf
rule 10 deny icmp
#
interface GigabitEthernet0/0/1
traffic-filtet inbound acl 3000
#
```

Answer: ABD

147. Which of the following statements about the ACL matching mechanism are correct? (Multiple Choice)

- A. If the ACL does not exist, the ACL matching result will be returned as: no match
- B. If the last rule is found and the packet still does not match, the ACL matching result will be returned as: no match
- C. By default, the search starts from the rule with the smallest number in the ACL. Once the rule is matched, the search for subsequent rules is stopped.
- D. Regardless of whether the result of a packet matching ACL is "unmatched", "allowed" or "denied", whether the packet is finally allowed to pass or denied is determined by each business module that applies the ACL.

Answer: CD

148. As shown in the figure, a static NAT command is deployed on router R1. When the PC accesses the Internet, the destination address in the data packet will not change.



A. True

B. False

Answer: A

149. Which of the following types of ACLs cannot match the network layer information?

A. Basic ACL

B. Layer 2 ACL

C. User ACL

D. Advanced ACL

Answer: B

150. The ACL configuration information of a router is shown in the figure. Which of the following statements is correct?

```

#
acl number 2000
 rule 5 permit source 192.168.1.1 0
 rule 10 deny source 192.168.1.1 0
#
  
```

#

acl number 2000

rule 5 permit source 192.168.1.1 0

rule 10 deny source 192.158.1.1 0

#

A. Packets with source IP address of 192.168.1.254 is matched by the permit rule

B. Packets with source IP addresses of 192.168.1.1 and 192.168.1.254 are matched by the permit rule

C. Packets with source IP address of 192.168.1.1 is matched by the permit rule

D. Packets with source IP address of 192.168.1.1 is matched by the deny rule

Answer: C

151. What is the main function of the DHCP DISCOVER message?

A. The server's confirmation response to the REQUEST message

B. The client is used to find the DHCP server

- C. The client requests configuration confirmation, or renews the lease
- D. The DHCP server is used to respond to the DHCP DISCOVER message, which carries various configuration information

Answer: B

152. The administrator has configured the router as shown in the figure. At the same time, the administrator wants to assign a shorter lease period to the DHCP address. Which of the following commands should be used?

```
ip pool pool1
network 10.10.10.0 mask 255.255.255.0
gateway-list 10.10.10.1
```

- A. Lease 0
- B. Dhcp select relay
- C. Lease day 0 hour 10
- D. Lease 24

Answer: C

153. Which of the following IEEE 802.11 standards support working in the 5GHz frequency band?
(Multiple choice)

- A. 802.11n
- B. 802.11ax
- C. 802.11a
- D. 802.11g

Answer: ABC

154. The configuration of the country code will affect the frequency used for actual transmission and the maximum transmission power.

- A. True
- B. False

Answer: A

155. CAPWAP protocol stipulates the communication standard between AC and AP. Which of the following statements about CAPWAP protocol is correct?

- A. CAPWAP is an application layer protocol based on TCP transmission
- B. In order to reduce the burden on AP, CAPWAP uses a tunnel to transmit control messages and data messages at the same time
- C. AP can encapsulate the user's data message in CAPWAP and forward it to AC for forwarding
- D. In order to establish a CAPWAP tunnel, FIT AP can only discover AC through broadcast messages

Answer: C

156. The FIT AP can obtain the IP address of the AC through the DHCP Option to establish a CAPWAP tunnel. For this purpose, which Option needs to be configured on the DHCP server?

- A. Option 10
- B. Option 55

C. Option 43

D. Option 82

Answer: C

157. How many types of data streams with different service levels can be marked based on the MPLS label?

A. 8

B. 2

C. 4

D. 16

Answer: A

158. Through SR (Segment Routing), an explicit path can be easily defined. The nodes in the network only need to maintain the SegmentRouting information to cope with the real-time rapid development of the business. What are the following characteristics of Segment Routing? (Multiple choice)

A. By extending the existing protocol (eg IGP), the existing network can better and smoothly evolve

B. SR (Segment Routing) adopts IP forwarding, no additional maintenance is required for another label forwarding table

C. Adopting source routing technology to provide the ability to quickly exchange text between the network and upper-layer applications

D. Support the centralized control mode of the controller and the distributed control mode of the transponder at the same time, and provide a balance between centralized control and distributed control

Answer: ACD

159. By default, network devices running SNMPv2c protocol use which of the following port numbers to send trap messages to the network management system?

A. 161

B. 6

C. 162

D. 17

Answer: A

160. In the STP protocol, the Message Age in the configuration BPDU sent by the root bridge is 0.

A. True

B. False

Answer: A

161. Which field is added to the IPv6 packet header than the IPv4 packet header?

A. Destination Address

B. Flow Label

C. Version

D. Source Address

Answer: B

162. Which of the following protocols does the RA message used by IPv6 stateless automatic configuration belong to?

- A. UDPv6
- B. ICMPv6
- C. IGMPv6
- D. TCPv6

Answer: B

163. Which of the following IPv6 addresses is a global unicast address?

- A. 2001::12:1
- B. FE80::2E0:FCFF:FEEF:FEC
- C. FF02::2E0:FCFF:FEEF:FEC
- D. FF02::1

Answer: A

164. The origin of SDN is the separation of transfer and control. The separation of transfer and control is a way to realize SDN, not the essence.

- A. True
- B. False

Answer: A

165. How many more bytes does the packet using MPLS label double-layer nesting technology have than the original IP packet?

- A. 8
- B. 32
- C. 16
- D. 4

Answer: A

166. Using the command mkdir test in the VRP operating platform, the system will create a directory named test.

- A. True
- B. False

Answer: A

167. Both pwd and dir commands in the VRP operating platform can view file information in the current directory.

- A. True
- B. False

Answer: B

168. How many types of OSPF messages are there?

- A. 3
- B. 5

C. 2

D. 4

Answer: B

169. The Router ID of OSPF must be the same as the IP address of an interface of the router.

A. True

B. False

Answer: B

170. Which of the following commands can check whether OSPF has established a neighbor relationship?

A. display ospf interface

B. display ospf peer

C. display ospf neighbor

D. display ospf brief

Answer: B

171. Which of the following routing protocols has the highest priority?

A. Static

B. OSPF

C. Direct

D. RIP

Answer: C

172. Which of the following IPv4 addresses can be used by a host to directly access the Internet?

A. 172.16.255.254/24

B. 10.255.255.254/24

C. 192.168.1.1/24

D. 172.32.1.1/24

Answer: D

173. The priority of a static routing protocol cannot be manually specified.

A. True

B. False

Answer: B

174. The output information of a router is shown in the figure. Which of the following statements is correct?
(Multiple choice)

```

<R1>display ospf interface verbose

OSPF Process 1 with Router ID 10.0.1.1
Interfaces

Area: 0.0.0.0          (MPLS TE not enabled)

Interface: 10.0.12.1 (GigabitEthernet0/0/0)
Cost: 1      State: BDR      Type: Broadcast      MTU: 1500
Priority: 1
Designated Router: 10.0.12.2
Backup Designated Router: 10.0.12.1
Timers: Hello 10 , Dead 40 , Poll 120 , Retransmit 5 , Transmit Delay 1
IO Statistics
      Type      Input      Output
      Hello      66        65
      DB Description      2        3
      Link-State Req      0        1
      Link-State Update    3        2
      Link-State Ack      2        2
ALLSPF GROUP
ALLDR GROUP
OpaqueId: 0   PrevState: Waiting
Effective cost: 1, enabled by OSPF Protocol

```

- A. The DR priority of this routing interface is 10
- B. The cost value of this interface is 1
- C. This router is BDR
- D. Router ID is 10.0.1.1

Answer: BCD

175. If the Proto of a certain route information in the routing table is OSPF, the priority of this route must be 10.

- A. True
- B. False

Answer: B

176. Which of the following statement about static routing in Huawei equipment is wrong?

- A. When the priority of a static route is 0, the route will definitely be preferred.
- B. The cost value (Cost) of the static route cannot be modified.
- C. The default value of the static route priority is 60
- D. The range of the priority value of the static route is 1-255

Answer: A

177. On the broadcast network, both DR and BDR use the multicast address 224.0.0.6 to receive link state update messages.

- A. True
- B. False

Answer: A

178. Which state does the OSPF protocol use to indicate that the adjacency relationship has been established?

- A. 2-way
- B. Full
- C. Down
- D. Attempt

Answer: B

179. On the VRP platform, what is the order of the default protocol priority of direct routing, static routing, RIP, OSPF routing in the area from high to low?

- A. Direct routing, OSPF, RIP, static routing
- B. Direct routing, static routing, RIP, OSPF
- C. Direct routing, OSPF, static routing, RIP
- D. Direct routing, RIP, static routing, OSPF

Answer: C

180. How to deal with when the Access port sends data frame?

- A. Sign up for PVID forwarding
- B. Send TAG message
- C. Replace VLAN TAG forwarding
- D. Strip TAG forwarding

Answer: D

181. The user cannot configure the VLAN ID to 0.

- A. True
- B. False

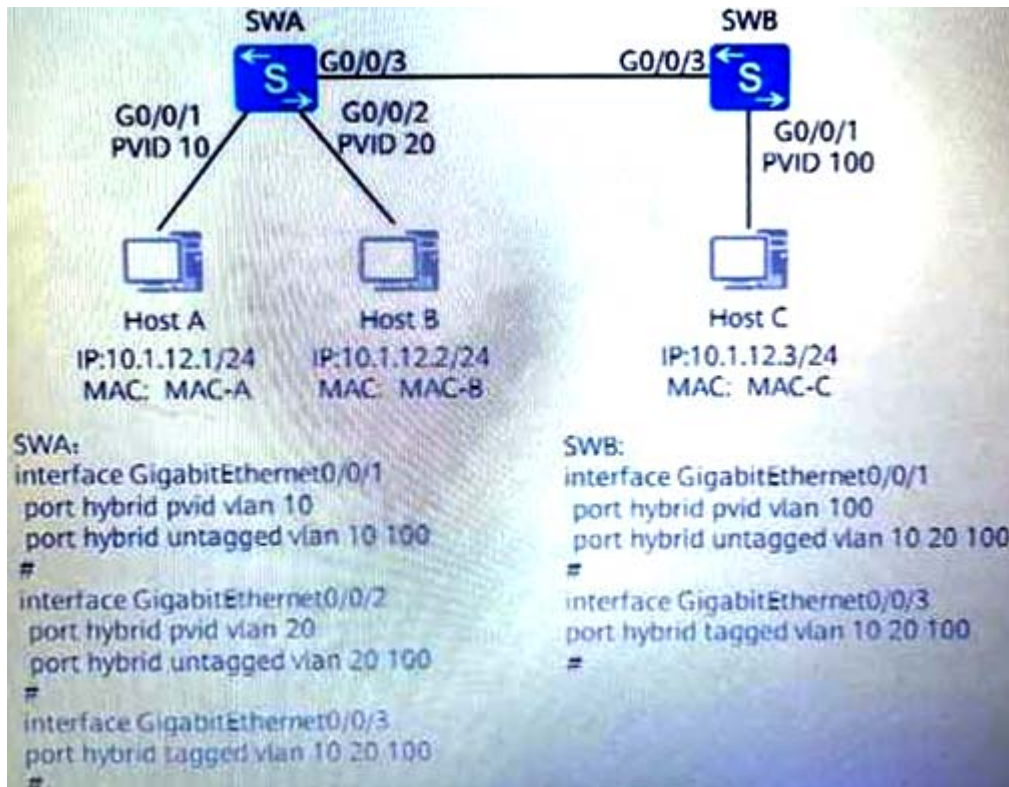
Answer: A

182. The Trunk port can send both tagged data frames and untagged data frames.

- A. True
- B. False

Answer: A

183. As shown in the figure below, in the MAC address table of SWA and SWB, what is the correct correspondence between MAC address, VLAN and port?



A. SWB:

MAC Address VLAN Port

MAC-A 100 GEC/0/3

MAC-B 200 GEC/0/3

MAC-C 100 GEC/0/1

B. SWA:

MAC Address VLAN Port

MAC-A 10 GEC/0/1

MAC-B 20 GEC/0/2

MAC-C 100 GEC/0/3

C. SWB:

MAC Address VLAN Port

MAC-A 10 GEC/0/3

MAC-B 20 GEC/0/3

MAC-C 100 GEC/0/1

D. SWA:

MAC Address VLAN Port

MAC-A 10 GEC/0/3

MAC-B 20 GEC/0/3

MAC-C 100 GEC/0/3

Answer: C

184. In the STP protocol, assuming that all switches are configured with the same priority, the MAC address of switch 1 is 00-e0-fc-00-00-40, and the MAC address of switch 2 is 00-e0-fc-00-00-10. The

MAC address of switch 3 is 00-e0-fc-00-00-20, and the MAC address of switch 4 is 00-e0-fc-00-00-80, then the root switch should be?

- A. Switch 3
- B. Switch 4
- C. Switch 2
- D. Switch 1

Answer: C

185. Among the configuration BPDUs sent by the switch, which bridge ID is unlikely to appear?

- A. 0 10-01-02-03-04-05
- B. 32768 06-01-02-03-04-05
- C. 0 00-01-02-03-04-05
- D. 4096 01-01-02-03-04-05

Answer: D

186. When the switch port receives a data frame that does not carry VLAN TAG, it must add PVID.

- A. True
- B. False

Answer: B

187. In the RSTP protocol, when the edge port receives the configuration BPDU message, it loses the edge port attribute.

- A. True
- B. False

Answer: A

188. The LACP mode of link aggregation uses LACPDU to elect the active end. What information in LACPDU is the basis for electing the active end of LACP? (Multiple choice)

- A. Interface number
- B. Interface priority
- C. Device priority
- D. MAC address

Answer: CD

189. In which working state of the port in the STP protocol can it be changed to the Forwarding state without going through other states?

- A. Listening
- B. Learning
- C. Disabled
- D. Blocking

Answer: B

190. Hybrid port can not only connect to the user host, but also connect to other switches.

- A. True

B. False

Answer: A

191. The switch G0/0/1 port configuration information is shown in the figure. Which VLAN data frame does the switch carry when forwarding the VLAN TAG?

#

```
interface GigabitEthernet0/0/1
```

```
port link-type trunk
```

```
port trunk pvid vlan 10
```

```
port trunk allow-pass vlan 10 20 30 40
```

#

A. 10

B. 30

C. 20

D. 40

Answer: A

192. On the switch, which VLAN can be deleted by using the undo command? (Multiple choice)

A. Vlan 1

B. Vlan 2

C. Vlan 1024

D. Vlan 4094

Answer: BCD

193. Which of the following is not the reason why RSTP can increase the speed of convergence?

A. Fast switching of the root port

B. The introduction of edge ports

C. Canceled Forward Delay

D. P/A mechanism

Answer: C

194. A company has 50 private IP addresses, and the administrator uses NAT technology to connect the company's network to the public network, but the company has only one public network address and is not fixed. Which of the following LNAT conversion methods meets the requirements?

A. NAT

B. Basic NAT

C. StaticNAT

D. easy-ip

Answer: D

195. Which of the following parameters cannot be used for advanced access control lists?

A. Time frame

B. Destination port number

C. Physical interface

D. Agreement number

Answer: C

196. An ACL rule is as follows: Which of the following IP addresses can be matched by permit rules rule 5 permit ip source 10.0.2.0 0.0.254.255? (Multiple choice)

A. 10.0.4.5

B. 10.0.5.6

C. 10.0.6.7

D. 10.0.2.1

Answer: ACD

197. Among the options below, what is the necessary technology to enable a host with an IP address of 10.0.0.1 to access the Internet?

A. Static routing

B. Dynamic routing

C. NAT

D. Route import

Answer: C

198. The following rules exist in an ACL of a router, rule deny tcp source 192.168.2.0 0.0.0.255 destination 172.16.10.2 0.0.0.0, which of the following statements is correct?

A. All TCP packets whose source IP is 192.168.2.1 and destination IP is 172.16.10.1 match this rule

B. All TCP packets whose source IP is 192.168.2.1 and destination IP is 172.16.10.2 match this rule

C. All TCP packets whose source IP is 172.16.10.2 and destination IP 192.168.2.1 match this rule

D. All TCP packets whose source IP is 172.16.10.2 and destination IP 192.168.2.0 match this rule

Answer: B

199. Which of the following applications is based on the TCP protocol? (Multiple choice)

A. TFTP

B. FTP

C. HTTP

D. Ping

Answer: BC

200. What is the port number used by the FTP protocol control plane?

A. 23

B. 21

C. 22

D. 24

Answer: B

201. When using FTP for file transfer, how many TCP connections will be established?

A. 1

B. 2

C. 3

D. 4

Answer: B

202. How to add AP on AC? (Multiple choice)

A. Import AP offline

B. Manually confirm AP in the uncertified list

C. Automatically discover AP

D. Add online

Answer: ABC

203. In order to join a wireless network STA needs to obtain wireless network information first. Which of the following messages is used by the STA to actively obtain SSID information?

A. Join

B. Discovery

C. Beacon

D. Probe

Answer: D

204. In order for the STA to obtain the SSID related information on the AP, which of the following messages is used by the AP to proactively declare the wireless network SSID information?

A. Join

B. Beacon

C. Discovery

D. Probe

Answer: B

205. After the link authentication is completed, the STA will continue to initiate link service negotiation. Which of the following messages is used to achieve the specific negotiation?

A. Association

B. Negotiate

C. Handshake

D. Join

Answer: A

206. What is the mode for AP to obtain the version from AC to upgrade? (Multiple choice)

A. FTP mode

B. SFTP mode

C. TFTP mode

D. AC mode

Answer: ABD

207. The MPLS label header is encapsulated between the data link layer header and the network layer header of the message.

A. True

B. False

Answer: A

208. Which of the following commands can be used to view the router's CPU usage?

A. display cpu-usage

B. display memory

C. display cpu-state

D. display interface

Answer: A

209. SNMP consists of which of the following parts? (Multiple choice)

A. Managed objects

B. Network Management System

C. Management Information Base

D. Agent process

Answer: ABCD

210. What kind of IPv6 address FE80::2E0:FCFF:FE6F:4F36 belongs to?

A. Multicast address

B. Global unicast address

C. Link local address

D. Anycast address

Answer: C

211. Which of the following statement about the Python language is wrong? (Multiple choice)

A. Python generally executes code from beginning to end in order.

B. Pay attention to the use of comments when writing code to help readers understand the code.

Comments start with #.

C. Python language supports automatic indentation, so you don't need to pay attention when writing code.

D. The function of print () is to output the content inside the brackets.

Answer: BC

212. The role of the collaboration layer in the SDN architecture is to complete service deployment based on user intentions. OpenStack belongs to the business collaboration layer.

A. True

B. False

Answer: A

213. The administrator wants to update the VRP version of Huawei routers, which is the correct method? (Multiple choice)

A. The administrator configures the router as an FTP server and transfers the VRP software through FTP

B. The administrator configures the router as an FTP client and transfers the VRP software via FTP

C. The administrator configures the router as a TFTP client and transmits VEP software through TFTP

D. The administrator configures the router as a TFTP server and transmits VRP software through TFTP

Answer: ABC

214. The output information of a certain device is shown in the figure. Which of the following statements is correct? (Multiple choice)

```
<Huawei>display version
Huawei Versatile Routing Platform Software
VRP (R) software, Version 5.130 (AR2200 V200R003C00)
Copyright (C) 2011-2012 HUAWEI TECH CO., LTD
Huawei AR2220 Router uptime is 0 week, 0 day, 0 hour, 1 minute
BKP 0 version information:
1. PCB      Version : AR01BAK2A VER.NC
2. If Supporting PoE : No
3. Board    Type   : AR2220
4. MPU Slot Quantity : 1
5. LPU Slot Quantity : 6

MPU 0(Master) : uptime is 0 week, 0 day, 0 hour, 1 minute
MPU version information :
1. PCB      Version : AR01SRU2A VER.A
2. MAB      Version : 0
3. Board    Type   : AR2220
4. BootROM  Version : 0
```

- A. The standby main control board of the device is operating normally
- B. The VRP operating version of the device is CRP5
- C. The device name is Huawei
- D. The device has been running for 1 minute

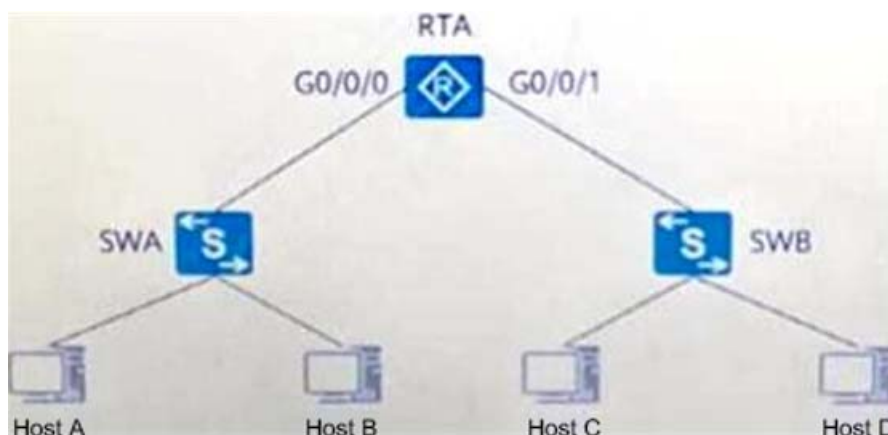
Answer: BCD

215. In which ways does VRP support router configuration? (Multiple choice)

- A. Configure the router through Telnet
- B. Configure the router through the Console port
- C. Configure the router through FTP
- D. Configure the router through the miniUSB port

Answer: ABD

216. As shown in the figure, the G0/0/0 and G0/0/1 interfaces of RTA are connected to two different network segments, and RTA is the gateway of these two networks. Before host A sends data to host C, it will send an ARP Request to obtain the which MAC address?



- A. SW
- B. Host C
- C. G0/0/1 interface of RTA
- D. G0/0/0 interface of RTA

Answer: D

217. Which stage of the life cycle of campus network construction is the beginning of a project?

- A. Network optimization
- B. Network operation and maintenance
- C. Planning and design
- D. Network implementation

Answer: C

218. When the router forwards a data packet, if it does not match the corresponding detailed route and there is no default route, it will directly discard the data packet.

- A. True
- B. False

Answer: A

219. An IPv4 data packet has a header length field of 20B and a total length field of 1500B, so the payload of this data packet is?

- A. 1480B
- B. 1520B
- C. 20B
- D. 1500B

Answer: A

220. A routing entry contains multiple elements, which of the following statement is wrong?

- A. NextHop displays the local interface address corresponding to this routing entry
- B. Pre shows the priority of this routing protocol
- C. Destination/Mask displays the address and mask length of the destination network/host
- D. Proto shows the source of learning this route

Answer: A

221. VRP supports OSPF multi-process, if the process number is not specified when OSPF is enabled, the process number used by default is?

- A. 0
- B. 1
- C. 10
- D. 100

Answer: B

222. An AR2200 router needs to restore the initial configuration, which of the following operations are necessary? (Multiple choice)

- A. Reset saved configuration
- B. Clear current configuration
- C. Restart the AR2200 router
- D. Re-specify the configuration file to be loaded at the next startup

Answer: AC

223. The administrator configures OSPF on a router, but the loopback interface is not configured on the router. Which is the correct description of the Router ID?

- A. The priority of the router will become the Router ID
- B. The IP address of the management interface of the router will become the Router ID
- C. The largest IP address of the physical interface of the router will become the Router ID
- D. The smallest IP address of the router's physical interface will become the Router ID

Answer: C

224. What is the protocol number corresponding to the OSPF protocol at the network layer?

- A. 89
- B. 0
- C. 1
- D. 6

Answer: A

225. The broadcast address is a special address in which the host bits in the network address are all set to 1, and it can also be used as a host address.

- A. True
- B. False

Answer: B

226. When planning the campus network, VLAN planning can be carried out according to the type of business.

- A. True
- B. False

Answer: A

227. What kind of message does the OSPF protocol use to confirm the received LSU message?

- A. LSU
- B. LSACK
- C. LSR
- D. LSA

Answer: B

228. Telnetlib is a template that comes with Python to implement the Telnet protocol.

- A. True
- B. False

Answer: A

229. Which of the following configuration commands is correct?

<Huawei> system-view

[Huawei] command-privilege level 3 view user save

- A. Modify the permission level of the user view command to 3, and save the configuration
- B. Modify the user's authority level to 3, and save the configuration
- C. Modify the authority level of the save command used by a user to 3
- D. Modify the permission level of the save command in the user view to 3

Answer: C

230. Trunk type ports and Hybrid type ports handle the same way when receiving data frames.

- A. True
- B. False

Answer: A

231. Which of the following advantages does stacking and clustering technology have? (Multiple choice)

- A. Number of expansion ports
- B. Simplify device management, just manage one logical device
- C. Can deploy link aggregation across physical devices
- D. Effectively avoid single points of failure

Answer: ABCD

232. By default, the port cost calculated by STP has a certain relationship with the port bandwidth, that is, the greater the bandwidth, the cost are?

- A. Consistent
- B. Small
- C. Big
- D. Not necessarily

Answer: B

233. The network is shown in the figure below, and the switch configuration information is shown in the figure. Which of the following statements is correct? (Multiple choice)

#

```
interface GigabitEthernet0/0/1
```

```
    port hybrid pvid vlan 20
```

```
    port hybrid untagged vlan 10 20
```

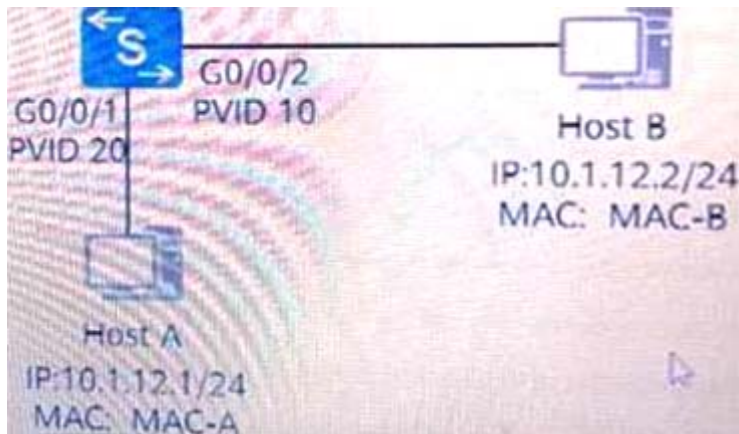
#

```
interface GigabitEthernet0/0/2
```

```
    port hybrid pvid vlan 10
```

```
    port hybrid untagged vlan 10 20
```

#



- A. Data frames on the two links do not include VLAN TAG
- B. Host A and Host B can be pinged
- C. Host A and Host B cannot be pinged
- D. The PVID of port GigabitEthernet0/0/1 of the switch is 20

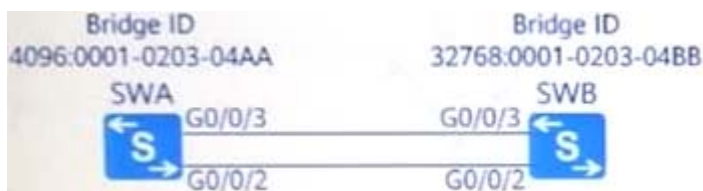
Answer: ABD

234. Which of the following statements about single-arm routing are correct? (Multiple choice)

- A. One physical connection per VLAN
- B. Need to create a subinterface on the router
- C. On the switch, configure the port connected to the router as a Trunk port, and allow the frames of the relevant VLAN to pass
- D. Use only one physical link connection between the switch and the router

Answer: BCD

235. The two switches shown in the figure below have both enabled the STP protocol, which port will eventually be in the Blocking state?



- A. G0/0/3 port of SWA
- B. G0/0/2 port of SWA
- C. G0/0/2 port of SWB
- D. G0/0/3 port of SWB

Answer: D

236. Neither the Alternate port nor the Backup port in RSTP can forward user traffic, nor can they receive, process, or send BPDU.

- A. True
- B. False

Answer: B

237. The switch is connected to the host. The commonly used port link type of the switch is?

- A. Hybrid link
- B. Trunk link
- C. Access link
- D. Trunk link

Answer: C

238. What are the characteristics of VLAN based on port?

- A. Add the VLAN label to the data frame according to the IP address carried in the message
- B. The host does not need to reconfigure the VLAN when moving the location
- C. The location of the host needs to be reconfigured for VLAN
- D. Assign VLAN ID according to the protocol type and encapsulation format of the data frame

Answer: C

239. The device port running the STP protocol is in the Forwarding state. Which of the following statements is correct?

- A. The port only receives and processes BPDUs, and does not forward user traffic
- B. The port not only does not process BPDU packets, but also does not forward user traffic
- C. This port not only forwards user traffic but also processes BPDU packets
- D. The port will build a MAC address table based on the received user traffic, but does not forward user traffic

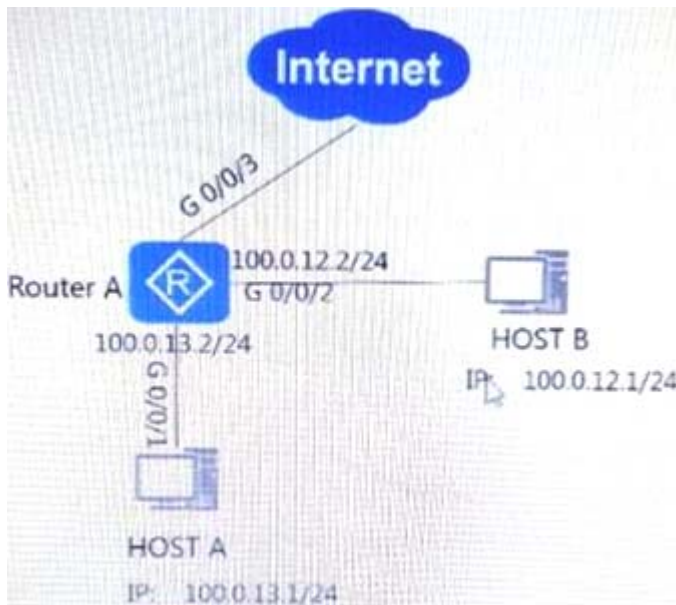
Answer: C

240. When the switch receives a unicast data frame, it will look up the destination MAC address in the MAC surface. Which of the following statements is wrong?

- A. If the MAC address is found, and the port corresponding to the MAC address in the MAC address table is the port where the frame enters the switch, the switch will discard it.
- B. If the MAC address cannot be found, the switch performs flooding operation.
- C. If the MAC address is found, and the port corresponding to the MAC address in the MAC address table is not the port where the frame enters the switch, the switch performs the forwarding operation.
- D. If the MAC address cannot be found, the switch will discard it.

Answer: D

241. In the network shown in the figure, which of the following configurations can realize that the host A can access the Internet, but the host B cannot? (Multiple choice)



A. acl number 2000

rule 5 deny source 100.0.12.0.0.0.0.255

rule 10 permit

#

interface GigabitEthernet0/0/3

traffic-filter outbound acl 2000

#

B. acl number 2000

rule 5 permit source 100.0.13.0.0.0.0.255

rule 10 deny source 100.0.12.0.0.0.0.255

#

interface GigabitEthernet0/0/3

traffic-filter outbound acl 2000

#

C. acl number 2000

rule 5 permit source 100.0.13.0.0.0.0.255

rule 10 deny

#

interface GigabitEthernet0/0/3

traffic-filter outbound acl 2000

#

D. acl number 2000

rule 5 deny source 100.0.12.0.0.0.0.255

rule 10 permit source 100.0.13.0.0.0.0.255

#

interface GigabitEthernet0/0/3

traffic-filter outbound acl 2000

#

Answer: ABCD

242. The config mode is the default ACL matching order on Huawei devices.

- A. True
- B. False

Answer: A

243. What is the number range of the basic ACL?

- A. 4000~4999
- B. 6000~6031
- C. 3000-3999
- D. 2000-2999

Answer: D

244. The default step length of ACL on AR G3 series routers is?

- A. 10
- B. 5
- C. 20
- D. 15

Answer: B

245. In the network shown in the figure below, host A logs in to router A through Telnet, and then obtains the configuration file of router B through FTP on the remote interface. At this time, how many TCP connections does router A have?



- A. 4
- B. 1
- C. 3
- D. 2

Answer: C

246. If a windows host is started for the first time, if the IP address is obtained by DHCP, then what is the source IP address of the first data packet sent by this host?

- A. 255.255.255.255
- B. 0.0.0.0
- C. 127.0.0.1
- D. 169.254.2.33

Answer: B

247. When the lease period reaches what percentage does the DHCP client send the lease renewal message for the first time?

- A. 0.25
- B. 0.5
- C. 1
- D. 0.875

Answer: B

248. Used to identify wireless networks in WLAN, what distinguishes different wireless networks?

- A. AP Name
- B. SSID
- C. VAP
- D. BSSID

Answer: B

249. When we search for the accessible wireless network on the laptop, what is the actual network name displayed?

- A. BSS
- B. BSSID
- C. ESS
- D. SSID

Answer: D

250. The following description of static and dynamic routing, which is wrong?

- A. Dynamic routing protocols take up more system resources than static routing
- B. After the link fails, the static route can automatically complete the network convergence
- C. Static routing is simple to configure and easy to manage when applied in the enterprise
- D. After the administrator deploys the dynamic routing protocol in the corporate network, later maintenance and expansion can be more convenient

Answer: B

251. As shown in the figure, with regard to OSPF topology and configuration, which of the following statements is correct?



- A. R1 and R2 can establish a stable OSPF neighbor relationship
- B. Compared with R2, R1 has a better chance of becoming a DR because its interface DR priority value is smaller
- C. As long as the interface network type of R1 is restored to the default broadcast type, R1 and R2 can establish a stable neighbor relationship
- D. As long as the interface network type of R1 is restored to the default broadcast type, and the hello time is adjusted to 10s, R1 and R2 can establish a stable neighbor relationship

Answer: D

252. The output information of the router R1 routing table is shown in the figure. Which of the following statements is correct? (Multiple choice)

<R1>display ip routing-table

Route Flags: R - relay, D - download to fib

Routing Tables: Public

Destinations : 13 Routes : 13

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
0.0.0.0/0	Static	60	0	RD	10.0.14.4	GigabitEthernet0/0/0
10.0.0.0/8	Static	60	0	RD	10.0.12.2	Ethernet0/0/0
10.0.2.0/24	Static	60	0	RD	10.0.13.3	Ethernet0/0/2
10.0.2.2/32	OSPF	10	50	RD	10.0.21.2	Ethernet0/0/1

- A. The data packet whose destination network is 12.0.0.0/8 will be forwarded from the router's Ethernet0/0/0 interface
- B. The router will discard packets whose destination network is 11.0.0.0/8
- C. The router will forward data packets whose destination network is 12.0.0.0/8

D. The data packet whose destination network is 11.0.0.0/8 will be forwarded from the router's GigabitEthernet0/0/0 interface

Answer: CD

253. The subnet mask of a network segment 150.25.0.0 is 255.255.224.0, then which is a valid host address in this network segment? (Multiple choice)

- A. 150.15.3.30
- B. 150.25.0.0
- C. 150.25.2.24
- D. 150.25.1.255

Answer: CD

254. Which of the following characteristics does the OSPF protocol have? (Multiple choice)

- A. Division of support areas
- B. Prone to routing loops
- C. Calculate the shortest path based on the number of hops
- D. Trigger an update

Answer: AD

255. On Huawei routers, by default, the priority value of the static routing protocol is?

- A. 120
- B. 100
- C. 0
- D. 60

Answer: D

256. Which of the following descriptions of OSPF DD packets and LSAs are correct? (Multiple choice)

- A. DD packet contains detailed information about LSA
- B. The LSA header is only a small part of the LSA
- C. The header of the LSA can uniquely identify an LSA
- D. DD packets only contain LSA header information

Answer: BCD

257. Which of the following IPv4 addresses are Class A addresses? (Multiple choice)

- A. 100.1.1.1
- B. 172.16.1.1
- C. 192.168.1.1
- D. 127.0.0.1

Answer: AD

258. Which of the following descriptions of OSPF Router ID is wrong? (Multiple choice)

- A. The prerequisite for the normal operation of the OSPF protocol is that the router has a Router ID
- B. Router ID in the same area must be the same, and Router ID in different areas can be different
- C. Router ID must be the IP address of an interface on the router

D. The Router ID must be specified by manual configuration

Answer: BCD

259. The statement about the TTL field in the IPv4 header, which is correct? (Multiple choice)

A. TTL value length is 80bit

B. Every time a packet passes through a layer 3 device, the TTL value is reduced by 1

C. When routing loops occur, the TTL value can be used to prevent data packets from being forwarded indefinitely

D. The range of TTL value is 0-255

Answer: BCD

260. In what state does the OSPF protocol confirm the master-slave relationship of the DD message?

A. 2-way

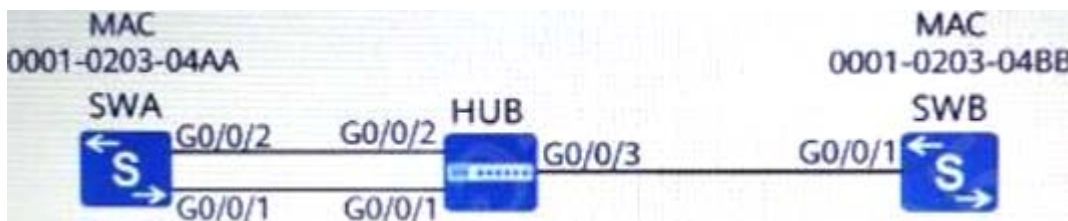
B. Exchange

C. Full

D. ExStart

Answer: D

261. As shown in the figure, two switches use the default parameters to run STP root primary, and switch B uses the configuration command STP priority 0, which port will be blocked?



A. G0/0/3 of HUB

B. G0/0/2 of switch A

C. G0/0/1 of switch A

D. G0/0/1 of switch B

Answer: B

262. As shown in the figure, after the two routers are configured with OSPF, the administrator configures the <silent-interface s0/0/0> command on RTA, then which of the following descriptions is correct? (Multiple choice)



A. RTA will continue to receive and analyze and process OSPF packets sent by RTB

B. The neighbor relationship between the two routers will be down

C. The neighbor relationship between the two routers will not be affected

D. RTA will no longer send OSPF packets

Answer: BD

263. If the Length/Type of an Ethernet data frame = 0x8100, then the payload of this data frame cannot be?
(Multiple choice)

- A. RSTP data frame
- B. ARP reply packet
- C. OSPF packet
- D. STP data frame

Answer: AD

264. Which layer of the OSI reference model does the Ethernet switch work?

- A. Data link layer
- B. Transport layer
- C. Physical layer
- D. Network layer

Answer: A

265. By default, the root path cost of the root bridge in the STP protocol must be.

- A. True
- B. False

Answer: A

266. As shown in the figure below, all hosts can communicate normally, then the corresponding relationship between SWA MAC address and port, which is correct?



- A. MAC-A G0/0/1
MAC-B G0/0/2
MAC-C G0/0/1
- B. MAC-A G0/0/2
MAC-B G0/0/2
MAC-C G0/0/3
- C. MAC-A G0/0/1
MAC-B G0/0/1
MAC-C G0/0/3
- D. MAC-A G0/0/1

MAC-B G0/0/2

MAC-C G0/0/3

Answer: D

267. Which of the following statements about link aggregation in LACP mode is correct?

- A. There can only be 4 active ports in LACP mode
- B. The number of active ports cannot be set in LACP mode
- C. All active interfaces in LACP mode participate in data forwarding and share load traffic
- D. In LACP mode, devices at both ends of the link send LACP packets to each other

Answer: D

268. The configuration information of a certain port of the switch is shown in the figure. Which of the following statements is wrong?

#

```
interface GigabitEthernet0/0/2
```

```
port hybrid pvid vlan 100
```

```
port hybrid tagged vlan 100
```

```
port hybrid untagged vlan 200.
```

#

- A. The port type is Hybrid
- B. If the VLAN TAG carried in the data frame is 200, the switch will strip off the VLAN TAG and send it out
- C. If the port receives data frames without VLAN TAG, the switch needs to add VLAN TAG 100
- D. If the VLAN TAG carried in the data frame is 100, the switch will strip off the VLAN TAG and send it out

Answer: D

269. By default, what is the STP Forward Delay time in seconds?

- A. 15
- B. 10
- C. 20
- D. 5

Answer: A

270. OSPF protocol is based on which of the following protocols?

- A. IP
- B. HTTP
- C. UDP
- D. TCP

Answer: A

271. In order to ensure that the same data stream is forwarded on the same physical link, which method of load sharing does Eth-Trunk adopt?

- A. Flow-based load sharing
- B. Packet-based load sharing
- C. Load sharing based on application layer information

D. Load sharing based on the inbound interface of the packet

Answer: A

272. The MAC address table of a certain switch is shown in the figure. If the switch receives a data frame with a destination MAC of 5489-9811-0b49 from port Eth0/0/2, which of the following statements is correct?

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

MAC Address	VLAN/ VSI/SI	PEVLAN	CEVLAN	Port	Type	LSP/LSR-ID MAC-Tunnel
5489-9885-18a8	1	-	-	Eth0/0/2	dynamic	0/-
5489-9811-0b49	1	-	-	Eth0/0/3	dynamic	0/-

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

- A. Forward this data frame from the Eth0/0/2 port
- B. Discard this data frame
- C. Forward this data frame from port Eth0/0/3
- D. Flood out this data frame

Answer: C

273. The value of the Type field in the RSTP configuration BPDU message is?

- A. 0x03
- B. 0x01
- C. 0x00
- D. 0x02

Answer: D

274. In which view can the administrator modify the device name for the router?

- A. Protocol-view
- B. User-view
- C. System-view
- D. Interface-view

Answer: C

275. It is known that there are two entries in the routing table of a certain router. If the router wants to forward packets with the destination address of 9.1.4.5, which of the following statements is correct?

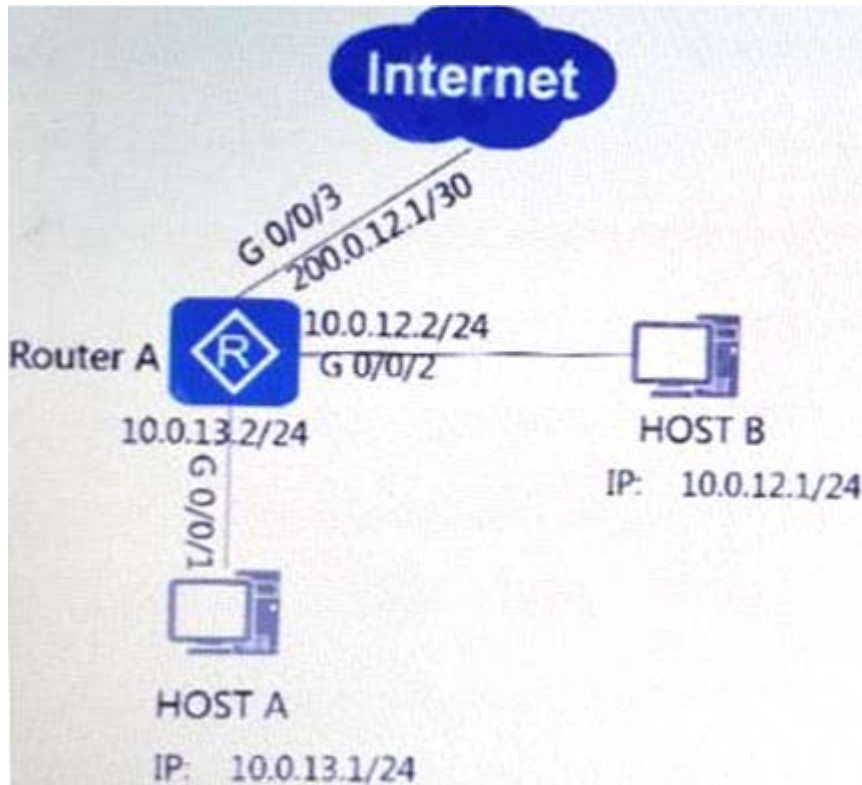
Destination/Mask	Protocol	Pre	Cost	Nexthop	Interface
9.0.0.0/8	OSPF	10	50	1.1.1.1	Serial0
9.1.0.0/16	IS-IS	15	100	2.2.2.2	Ethernet0

- A. Choose the second item as the best matching item, because Ethernet0 is faster than Serial0
- B. Choose the second item as the best matching item, because the cost of the RIP protocol is small
- C. Choose the first item as the best matching item, because the OSPF protocol has a higher priority value

D. Select the second item as the best matching item, because the route is a more accurate match compared to the destination address 9.1.4.5

Answer: D

276. The network shown in the figure below requires the network where host A is located to access the Internet through Easy IP. Which of the following ACLs should be used on the G0/0/3 interface of router A?



- A. acl number 2000
rule 5 permit source 10.0.12.0.0.0.0.255
#
- B. acl number 2000
rule 5 permit source 10.0.13.0.0.0.0.255
#
- C. acl number 2000
rule 5 permit source 10.0.12.1.0.0.0.0
#
- D. acl number 2000
rule 5 permit source 10.0.13.1.0.0.0.0
#

Answer: B

277. NATP distinguishes the IP addresses of different users through the protocol numbers in TCP or UDP or IP packets.

- A. True
- B. False

Answer: B

278. The "maximum-vty" command of the VTY user interface can configure how many users can log in to the device through Telnet at the same time.

- A. True
- B. False

Answer: A

279. Which command can configure the country code on the AC?

- A. nation-code
- B. province-code
- C. country-code
- D. state-code

Answer: C

280. AP's working mode does not allow switching.

- A. True
- B. False

Answer: B

281. Which of the following IEEE 802.11 standards support working in the 2.4GHz and 5GHz frequency bands? (Multiple choice)

- A. 802.11g
- B. 802.11n
- C. 802.11ax
- D. 802.11ac

Answer: BC

282. Which of the following parameters is used in LCP negotiation to detect link loops and other abnormal conditions?

- A. CHAP
- B. MRU
- C. Magic word
- D. PAP

Answer: C

283. The tree network topology is actually a hierarchical star structure, which is easy to expand the network scale, but the higher the level, the more serious the network problem caused by the node failure.

- A. True
- B. False

Answer: A

284. When setting up a campus network, which of the following protocols can be used to avoid Layer 2 loops?

- A. SNMP

- B. NAT
- C. OSPF
- D. RSTP

Answer: D

285. The DHCPv6 server supports providing the host with other configuration information such as DNS server addresses.

- A. True
- B. False

Answer: A

286. What extension headers does the IPv6 message support? (Multiple choice)

- A. Fragmentation extension header
- B. Destination Option Extension Header
- C. VLAN extension header
- D. Hop-by-hop option extension header

Answer: ABD

287. The IPv6 protocol uses NS and NA packets for duplicate address detection (DAD).

- A. True
- B. False

Answer: A

288. NFV (Network Functional Virtualization), network function virtualization, realizes the deployment of network applications in a software-based way.

- A. True
- B. False

Answer: A

289. Which of the following methods can read data non-blocking in Python's telnetlib?

- A. telnet.read very lazy()
- B. telnet.read all()
- C. telnet.read eager()
- D. telnet.read very eager()

Answer: D

290. UDP is oriented to connectionless, what protocol must be relied on to ensure the reliability of transmission?

- A. Transmission Control Protocol
- B. Application layer protocol
- C. Network layer protocol
- D. Internet Protocol

Answer: B

291. What is the full name of the general routing platform VRP?

- A. Versatile Redundancy Platform
- B. Versatile Routing Protocol
- C. Virtual Routing Platform
- D. Versatile Routing Platform

Answer: D

292. Which of the following levels does not belong to the common network level in the medium-sized campus network architecture?

- A. Network layer
- B. Core layer
- C. Convergence layer
- D. Access layer

Answer: A

293. The statement about the function of the network layer in the OSI reference model, which is correct?

- A. To transmit bit streams between devices, the level, speed, and cable pins are specified
- B. The layer closest to the user in the OSI reference model provides network services for applications
- C. Provide connection-oriented or non-connection-oriented data transmission and error detection before retransmission
- D. Combine bits into bytes, then combine bytes into frames, use link layer addresses (Ethernet uses MAC addresses) to access the medium, and perform error detection
- E. Provide logical address to realize data forwarding from source to destination

Answer: E

294. Regarding the role of the ARP protocol and message encapsulation, which description is correct?

- A. ARP protocol supports deployment on PPP link and HDLC link
- B. ARP protocol is based on Ethernet encapsulation
- C. The MAC address and UUID address of the destination can be obtained through the ARP protocol
- D. The ARP cache on the network device can only be obtained through the ARP protocol

Answer: B

295. In the OSPF broadcast network, which routers will a D Rother router exchange link state information with? (Multiple choice)

- A. BDR
- B. All OSPF neighbors
- C. DR Other
- D. DR

Answer: AD

296. The broadcast address of the 192.168.1.0/25 network segment is 192.168.1.128.

- A. True
- B. False

Answer: B

297. Which fields in the IPv4 header are related to fragmentation? (Multiple choice)

- A. Flags
- B. TTL
- C. Identification
- D. Fragment Offset

Answer: ACD

298. The last option field of IPv4 is variable-length optional information. What is the maximum length of this field?

- A. 10B
- B. 40B
- C. 60B
- D. 20B

Answer: B

299. Which of the following statements about the default route are correct? (Multiple choice)

- A. If the destination address of the message cannot match any other routing entries in the routing table, the router will forward the message according to the default route.
- B. In the routing table, the default route appears as a route to the network 0.0.0.0 (the mask is also 0.0.0.0).
- C. There must be a default route in the routing table of any router.
- D. The default route can only be manually configured by the administrator.

Answer: AB

300. Which of the following is not included in the routing table?

- A. MAC
- B. NextHop
- C. Cost
- D. Destination/Mask

Answer: A

301. Which of the following description about the division of OSPF protocol area is wrong?

- A. Dividing the OSPF area can reduce the size of the LSDB of some routers
- B. The LSDBs in the routers in the same OSPF area are completely consistent
- C. Only ABR can be used as ASBR
- D. Area 0 is the backbone area, and other areas must be connected to this area

Answer: C

302. What can a mask length of 12 bits be expressed as?

- A. 255.240.0.0
- B. 255.255.255.0
- C. 255.248.0.0
- D. 255.255.0.0

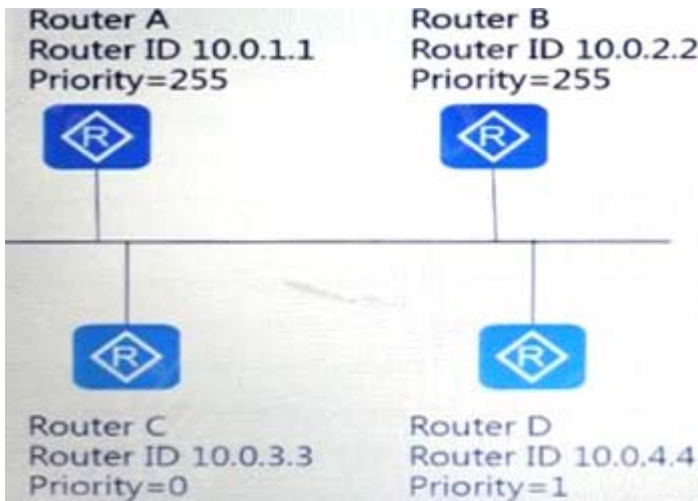
Answer: A

303. Ethernet frames are processed and forwarded in the form of VLAN TAG inside the switch.

- A. True
- B. False

Answer: B

304. In the network shown in the figure below, assuming that all routers can enable OSPF at the same time, which router is the DR in this network?



- A. Router B
- B. Router D
- C. Router A
- D. Router C

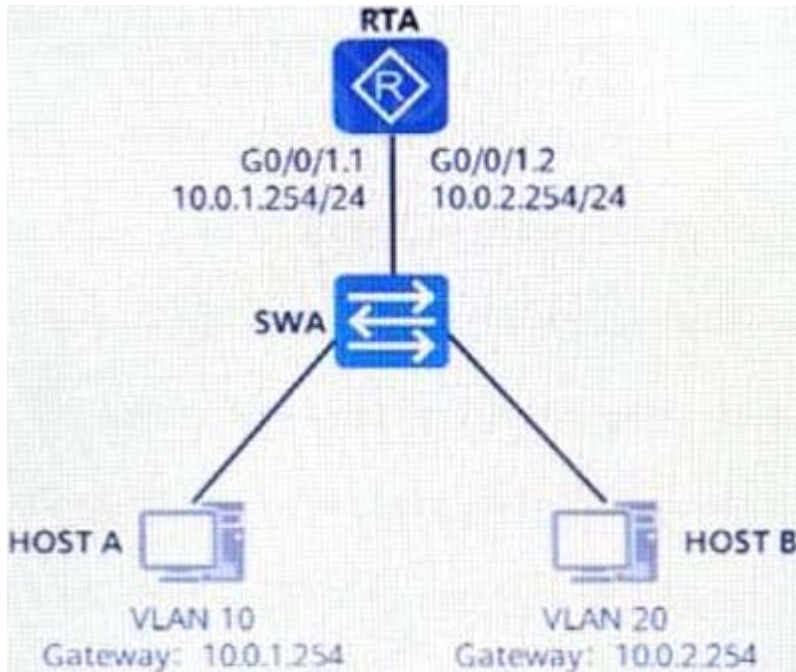
Answer: A

305. In the MAC address table of the switch, which of the following entries will not age?

- A. Dynamic MAC address table entry
- B. Device MAC address table entry
- C. Static MAC address table entry
- D. Port MAC address table entry

Answer: C

306. As shown in the figure, if host A and host B want to achieve inter-VLAN communication through single-arm routing, which configuration should be done under the G0/0/1.1 interface of RTA?



- A. dot1q termination vid 1
- B. dot1q termination vid 10
- C. dot1q termination vid 20
- D. dot1q termination vid 30

Answer: B

307. What modes are supported by device link aggregation? (Multiple choice)

- A. Manual load sharing mode
- B. Manual active/standby mode
- C. Mixed mode
- D. LACP mode

Answer: AD

308. Regarding the IPv6 address 2031:0000:720C:0000:0000:09E0:839A:130B, which of the following abbreviations are correct? (Multiple choice)

- A. 2031:0:720C:0:0:9E0:839A:130B
- B. 2031:0:720C::9E0:839A:130B
- C. 2031:0:720C:0:0:9E:839A:1308
- D. 2031::720C::9E0:839A:130B

Answer: AB

309. When the FIT AP goes online, the software version must be downloaded from the AC.

- A. True
- B. False

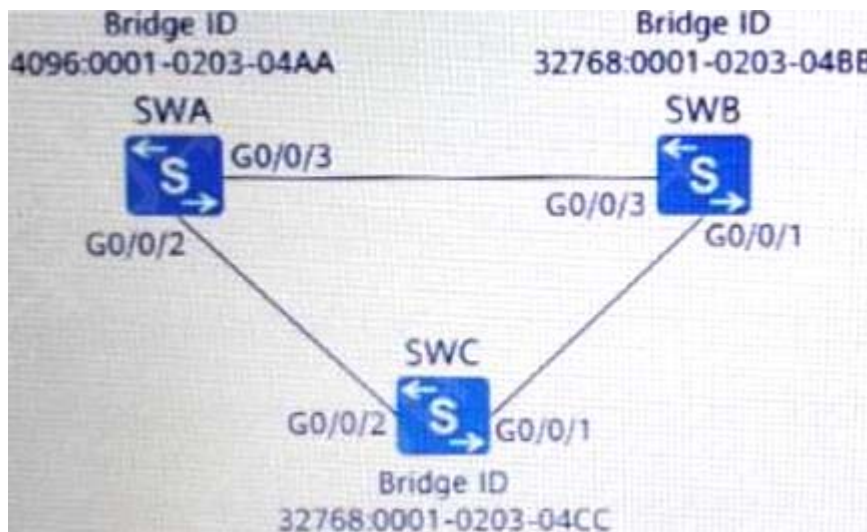
Answer: B

310. The RSTP protocol uses the P/A mechanism to speed up the speed at which the upstream port turns to the Forwarding state, but there is no temporary loop appeared, what is the reason?

- A. Ensure that there will be no temporary loops through the synchronization mechanism
- B. Shorten the time of Forward Delay
- C. Speed up port role election
- D. Introduced edge ports

Answer: A

311. As shown in the figure below, all switches enable the STP protocol and keep other configurations in their default state. When the network is stable, which of the following statements are correct? (Multiple choice)



- A. Both ports of SWC are in Forwarding state
- B. Both ports of SWB are in Forwarding state
- C. SWA is the root bridge in this network
- D. SWB is the root bridge in this network

Answer: BC

312. By default, it takes at least 30s for the port status in the STP protocol to change from Disable to Forwarding.

- A. True
- B. False

Answer: A

313. Huawei ARG3 series routers have all SNMP versions (SNMPv1, SNMPv2c and SNIPv3) by default.

- A. True
- B. False

Answer: A

314. How many bytes is the total length of the VLAN frame format defined by IEEE802.1Q?

- A. 4
- B. 3

C. 2

D. 1

Answer: A

315. Which two stages can the PPPoE session establishment process be divided into? (Multiple choice)

A. Discovery stage

B. PPPoE Session stage

C. PPP connecting stage

D. DHCP stage

Answer: AB

316. Which of the following statements about the various versions of the SNMP protocol are correct? (Multiple choice)

A. SNMMPv3 messages have the functions of identity verification and encryption processing.

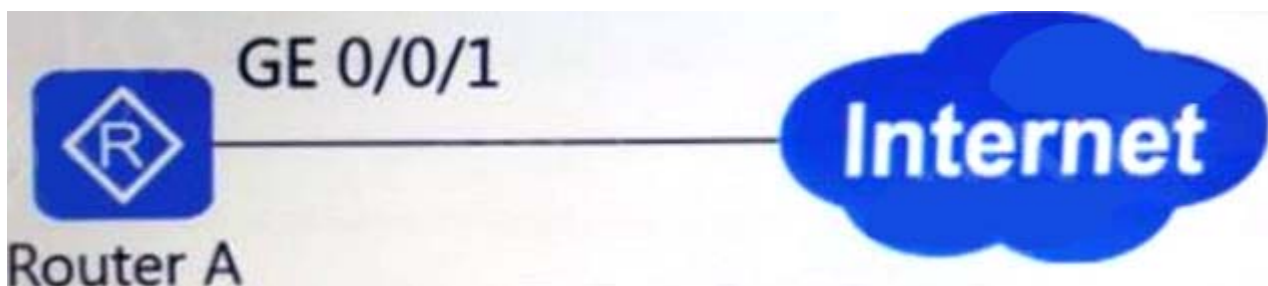
B. SNMPv2c follows the 5 protocol operations defined in the v1 version and adds two additional operations.

C. SNMPv1 uses UDP as the transport layer protocol, while SNMPv2c and SNMPv3 use TCP as the transport layer protocol, so the reliability is higher.

D. SNMPv2c messages have the functions of identity verification and encryption processing.

Answer: AB

317. In the network as shown in the figure, the administrator wants all hosts to be unable to access the Internet from 8:00 to 17:00 every day. In the G0/0/1 interface configuration, which ACL rule needs to be bound to traffic-filter outbound?



A. time-range am9 to pm5 08:00 to 17:00 working-day

#

ac1 number 2003

rule 5 deny time-range am9 to pm5

#

B. time-range am9 to pm5 08:00 to 17:00 daily

#

ac1 number 2001

rule 5 deny time-range am9 to pm5

#

C. time-range am9 to pm5 07:00 to 18:00 daily

#

ac1 number 2002

```
rule 5 permit time-range am9 to pm5
#
D. time-range am9 to pm5 08:00 to 17:00 off-day
#
ac1 number 2004
rule 5 permit time-range am9 to pm5
#
```

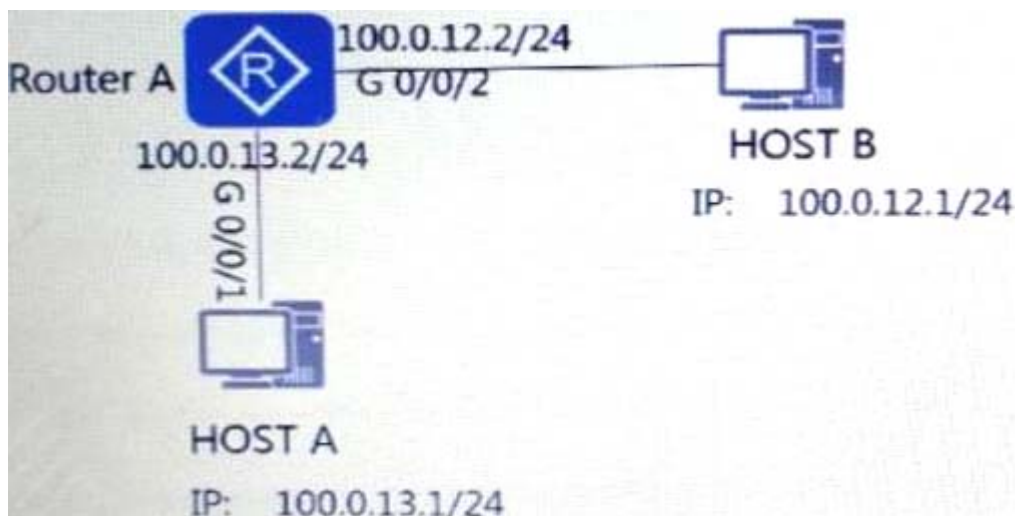
Answer: B

318. Regarding the corresponding relationship between the number and type of the access control list, which of the following descriptions is correct? (Multiple choice)

- A. The number range of advanced access control list is 3000-3999
- B. The access control list number range of the second layer is 4000-4999
- C. The number range of the interface-based access control list is 1000-2000
- D. Based on the access control list number range is 1000-2999

Answer: AB

319. In the network as shown in the figure, which of the following configurations can realize that host A cannot access the HTTP service of host B, and host B cannot access the FTP service of host A? (Multiple choice)

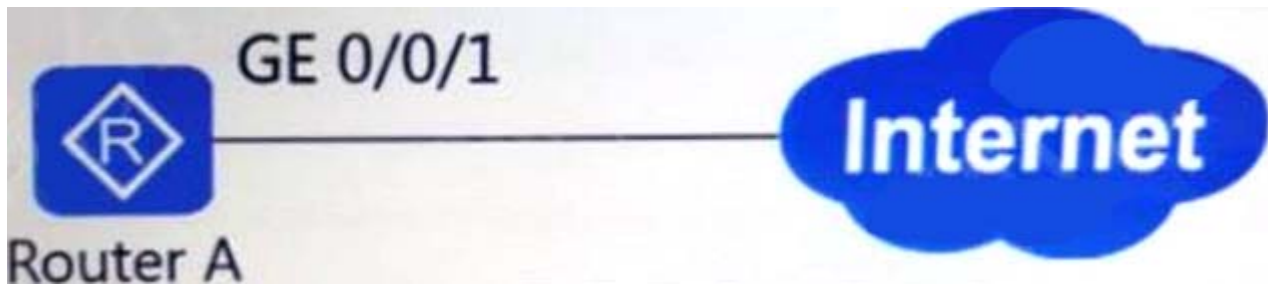


```
A. acl number 3000
rule 5 deny tcp source 100.0.12.0 0.0.0.255 source-port eq www destination 100.0.13.0 0.0.0.255
#
acl number 3001
rule 5 deny tcp source 100.0.13.0 0.0.0.255 source-port eq ftp destination 100.0.12.0 0.0.0.255
#
Interface GigabitEthernet0/0/1
traffic-filter inbound acl 3000
#
Interface GigabitEthernet0/0/2
traffic-filter inbound acl 3001
```

```
#
B. acl number 3000
rule 5 deny tcp source 100.0.13.0 0.0.0.255 destination 100.0.12.0 0.0.0.255 destination eq www
#
acl number 3001
rule 5 deny tcp source 100.0.12.0 0.0.0.255 destination 100.0.13.0 0.0.0.255 destination eq ftp
#
Interface GigabitEthernet0/0/1
traffic-filter inbound acl 3000
#
Interface GigabitEthernet0/0/2
traffic-filter inbound acl 3001
#
C. acl number 3000
rule 5 deny tcp source 100.0.12.0 0.0.0.255 source-port eq www destination 100.0.13.0 0.0.0.255
#
acl number 3001
rule 5 deny tcp source 100.0.13.0 0.0.0.255 source-port eq ftp destination 100.0.12.0 0.0.0.255
#
Interface GigabitEthernet0/0/1
traffic-filter inbound acl 3000
#
Interface GigabitEthernet0/0/2
traffic-filter inbound acl 3001
#
D. acl number 3000
rule 5 deny tcp source 100.0.13.0 0.0.0.255 destination 100.0.12.0 0.0.0.255 destination eq www
#
acl number 3001
rule 5 deny tcp source 100.0.12.0 0.0.0.255 destination 100.0.13.0 0.0.0.255 destination eq ftp
#
Interface GigabitEthernet0/0/1
traffic-filter inbound acl 3000
#
Interface GigabitEthernet0/0/2
traffic-filter inbound acl 3001
#
```

Answer: BD

320. In the network as shown in the figure, the administrator hopes that all hosts cannot access the Web service (port number is 80), and other services are normally accessed, so in the interface configuration of G0/0/1, which ACL rule needs to be bound to traffic-filter outbound?



- A. acl number 3000
rule 5 deny tcp destination-port eq www
rule 10 permit ip
#
- B. acl number 3001
rule 5 deny udp destination-port eq www
rule 10 permit ip
#
- C. acl number 3002
rule 5 permit ip
rule 10 deny tcp destination eq www
#
- D. acl number 3003
rule 5 permit ip
rule 10 deny udp destination eq www
#

Answer: A

321. The DHCP OFFER message can carry DNS address, but it can only carry one DNS address.

- A. True
- B. False

Answer: B

322. Which of the following statements about Adjacency Segment is wrong?

- A. Adjacency Segment is used to identify an adjacency of a node in the network
- B. Adjacency Segment is identified by Adjacency Segment ID (SID)
- C. Adjacency Segment must be configured manually
- D. Adjacency Segment spreads to other network elements through the IGP protocol, which is visible globally and valid locally

Answer: C

323. In order to distinguish different users and provide different network services on the AP, which of the following can be configured?

- A. VAP
- B. WAP
- C. VAC
- D. VT

Answer: A

324. Which of the following commands can be used to check the session status of the PPPoE client?

- A. display pppoe-client session packet
- B. display pppoe-client session summary
- C. display ip interface brief
- D. display current-configuration

Answer: B

325. The wireless access controller (AC, Access Controller) is a unified management and control device in the FIT AP architecture. Which of the following description of the role of AC is wrong?

- A. AP configuration delivery
- B. User access control
- C. User access authentication
- D. Regardless of the data forwarding method, the user's data packets are forwarded by the AC

Answer: D

326.::1/128 is the IPv6 loopback address.

- A. True
- B. False

Answer: A

327. The host uses the stateless address automatic configuration scheme to obtain the IPv6 address, and cannot obtain the DNS server address information.

- A. True
- B. False

Answer: A

328. Which of the following descriptions about the switch is wrong?

- A. Switches generally work at the data link layer
- B. The switch can complete the exchange of data frames
- C. The switch can provide network access services for terminal devices (PCs, servers)
- D. Switches are generally used as the export equipment of the network

Answer: D

329. Regarding the configuration shown in the figure, which of the following statement is correct?

```
<Huawei>system-view
```

```
[Huawei] user-interface console 0
```

```
[Huawei-ui-console0] history-command max-size 20
```

- A. history-command max-size 20 is to adjust the size of the history named cache to 20
- B. The default size of the history command cache is 5 bytes
- C. After the above configuration is completed, the history command buffer can save 20 bytes of commands
- D. The default size of the history command cache is 5

Answer: A

330. In the VRP system, what function does the Ctrl+Z combination key have? (Multiple choice)

- A. Exit user view from any view
- B. Exit interface view
- C. Exit the current view
- D. Exit the Console interface view
- E. Return from system view to user view

Answer: AE

331. The routers in the backbone area have complete link state information for all other areas.

- A. True
- B. False

Answer: B

332. The IPv4 address assigned by the network administrator to a host in the network is 192.168.1.1/28, how many more hosts can be added to the network where this host is located?

- A. 13
- B. 14
- C. 15
- D. 12

Answer: A

333. Which message does the OSPF protocol use to discover and maintain neighbor relationships?

- A. HELLO
- B. LSU
- C. DD
- D. LSR

Answer: A

334. Which of the following descriptions of OSPF areas are correct? (Multiple choice)

- A. After configuring the OSPF area correctly, you must configure an IP address for the loopback interface of the router
- B. All networks should be declared in zone 0
- C. The number of the backbone area cannot be 2
- D. The number range of the area is from 0.0.0.0 to 255.255.255.255

Answer: CD

335. What kind of message does the OSPF protocol use to describe its LSDB?

- A. DD
- B. LSR
- C. LSU
- D. HELLO

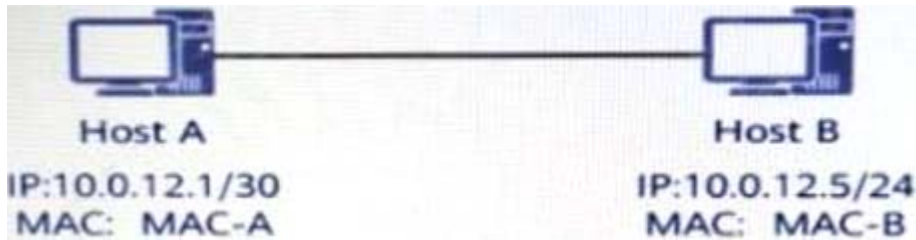
Answer: A

336. Which of the following IPv4 addresses the host uses cannot directly access the Internet?

- A. 50.1.1.1
- B. 10.1.1.1
- C. 100.1.1.1
- D. 200.1.1.1

Answer: B

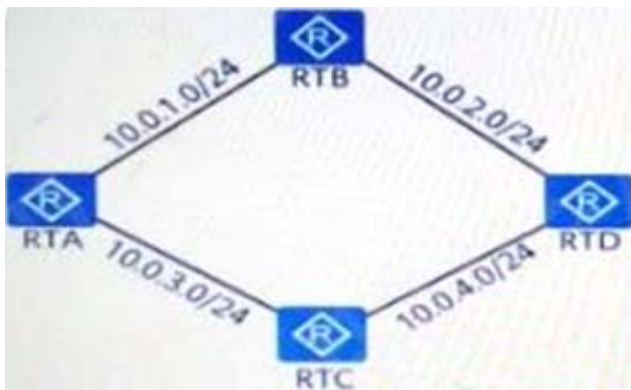
337. As shown in the figure below, which of the following statement is correct? (Multiple choice)



- A. The broadcast address of host A and host B are the same
- B. Host A can ping host B
- C. Host A and Host B cannot obtain each other's MAC address
- D. The following entry 10.0.12.5 MAC-B exists in the ARP cache of host A

Answer: BD

338. In the network shown in the figure below, all links are Ethernet links, and all interfaces of all routers run OSPF protocol, how many DRs are elected in the entire network?



- A. 1
- B. 2
- C. 4
- D. 3

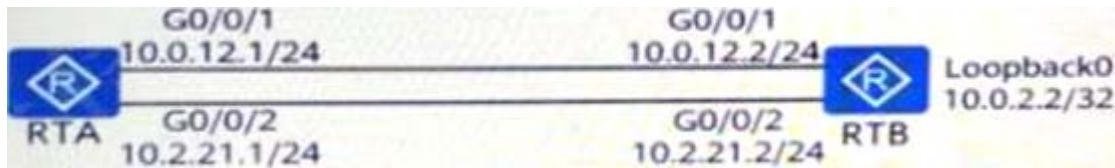
Answer: C

339. A gateway must be configured for a host to communicate with other hosts.

- A. True
- B. False

Answer: B

340. In the network shown in the figure below, the administrator wants RTA to use a static router, and preferentially send data packets to RTB's Loopback0 interface through G0/0/1 port, while G0/0/2 is used as a backup, so what configuration can be made on RTA Realize this requirement?



- A. ip route-static 10.0.2.2 255.255.255.255 10.0.12.2
ip route-static 10.0.2.2 255.255.255.255 10.0.21.2 preference 40
- B. ip route-static 10.0.2.2 255.255.255.255 10.0.12.2
ip route-static 10.0.2.2 255.255.255.255 10.0.21.2
- C. ip route-static 10.0.2.2 255.255.255.255 10.0.12.2 preference 70
ip route-static 10.0.2.2 255.255.255.255 10.0.21.2
- D. ip route-static 10.0.2.2 255.255.255.255 10.0.12.2
ip route-static 10.0.2.2 255.255.255.255 10.0.21.2 preference 70

Answer: D

341. Which of the following statements about MPLS Label is wrong?

- A. The label is carried by the header of the message and does not contain topology information
- B. The label is encapsulated between the network layer and the transport layer
- C. The label is used to uniquely identify the forwarding equivalence class FEC to which a packet belongs
- D. The label is a short identifier with a fixed length and only local meaning

Answer: B

342. The basic header length of an IPv6 message is a fixed value.

- A. True
- B. False

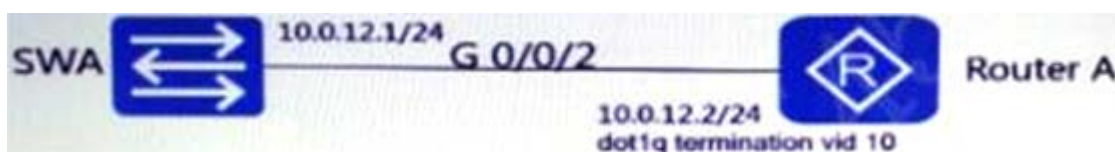
Answer: A

343. How many port states does the RSTP protocol have?

- A. 1
- B. 3
- C. 4
- D. 2

Answer: B

344. In the network shown in the figure below, the switch uses VLANIF interface to connect with the router's sub-interface. Which of the following configurations can meet this requirement?



- A. interface Vlanif10
ip address 10.0.12.1 255.255.255.0


```
#
interface GigabitEthernet 0/0/2
port link-type trunk
port trunk pvid 10
port trunk allow-pass vlan 10
#
B. interface Vlanif10
ip address 10.0.12.1 255.255.255.0
#
interface GigabitEthernet 0/0/2
port link-type trunk
port trunk allow-pass vlan 10
#
C. interface Vlanif10
ip address 10.0.12.1 255.255.255.0
#
interface GigabitEthernet 0/0/2
port link-type hybrid
port hybrid untag vlan 10
#
D. interface Vlanif10
ip address 10.0.12.1 255.255.255.0
#
interface GigabitEthernet 0/0/2
port link-type access
port default vlan 10
#
```

Answer: B

345. Regarding the conflict domain and the broadcast domain, which description is correct? (Multiple choice)

- A. The devices connected to all ports of a Layer 2 switch with default configuration belong to a conflict domain
- B. The devices connected to all ports of a HUB belong to a broadcast domain
- C. The devices connected to all ports on a HUB belong to a conflict domain
- D. The device connected to a router belongs to a broadcast domain
- E. The devices connected to all ports of a Layer 2 switch with default configuration belong to a broadcast domain

Answer: BCE

346. The Layer 2 Ethernet switch generates MAC address table entries according to the _____ of the Ethernet frame received by the port.

- A. Destination MAC address
- B. Destination IP address

- C. Source IP address
- D. Source MAC address

Answer: D

347. The output information of the sub-interface of a router aggregate port 1 is shown in the figure. According to this information, which of the following statements are correct? (Multiple choice)

```
[Router A]display interface Eth-Trunk 1.100
Eth-Trunk1.100 current state : UP
Line protocol current state : UP
Last line protocol up time : 2019-03-04 10:22:40 UTC-08:00
Description:HUAWEI, AR Series, Eth-Trunk1.100 Interface
Route Port,Hash arithmetic : According to SIP-XOR-DIP,Maximal BW: 2G, Current BW
: 2G, The Maximum Transalt Unit is 1500
Internet Address is 10.0.12.2/24
IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is 00e0-fc3b-2015
Current system time: 2019-03-04 10:24:29-08:00
  Last 300 seconds input rate 0 bits/sec, 0 packets/sec
  Last 300 seconds output rate 0 bits/sec, 0 packets/sec
  Realtime 0 seconds input rate 0 bits/sec, 0 packets/sec
  Realtime 0 seconds output rate 0 bits/sec, 0 packets/sec
  Input: 6 packets, 574 bytes,
  Output: 7 packets, 638 bytes,
  Input bandwidth utilization : 0%
  Output bandwidth utilization : 0%
```

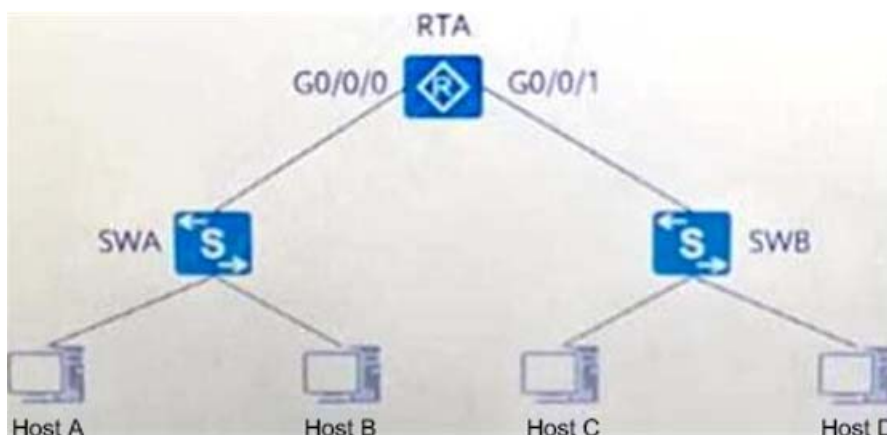
PortName	Status	Weight
GigabitEthernet0/0/1	UP	1
GigabitEthernet0/0/2	UP	1

The Number of Ports in Trunk : 2
The Number of UP Ports in Trunk : 2

- A. The sub-interface number of the aggregate port is 100.
- B. The sub-interface of the aggregated port carries the VLAN when forwarding data frames
- C. There are two links on the aggregation port
- D. The IP address of the sub-interface of the aggregate port is 10.0.12.2/24

Answer: ACD

348. As shown in the figure, which of the description of this network topology is correct?



- A. There are 6 broadcast domains in this network
- B. There are 12 collision domains in this network
- C. There are 6 collision domains in this network

D. There are 2 broadcast domains in this network

Answer: D

349. The switch receives a unicast data frame. If the destination MAC of the data frame can be found in the MAC surface, the data frame will be forwarded from the corresponding port of the MAC.

A. True

B. False

Answer: B

350. After the administrator successfully logs in to the router through Telnet, it is found that the interface IP address of the router cannot be configured. So, what are the possible reasons?

A. The authentication mode of the Telnet user is incorrectly configured

B. The Telnet terminal software used by the administrator prohibits the corresponding operation

C. The Telnet user level is incorrectly configured

D. SNMMP parameter configuration error

Answer: C

351. The device running STP will discard the RSTP configuration BPDU when it receives it.

A. True

B. False

Answer: B

352. In the STP protocol, which of the following factors will affect the election of the root switch? (Multiple choice)

A. Switch priority

B. Switch interface ID

C. The IP address of the switch

D. The interface bandwidth of the switch

E. MAC address of the switch

Answer: AE

353. What port status may exist in the switch with the standard STP protocol enabled? (Multiple choice)

A. Discarding

B. Forwarding

C. Disabled

D. Listening

Answer: BCD

354. Which of the following statement about the role of the STP protocol Forward Delay is correct?

A. Improve the convergence speed of STP

B. Improve the survival time of BPDUs to ensure that the configured BPDUs can be forwarded to more switches

C. Prevent temporary loops

D. Need to delay the transition between Blocking state and Disabled state

E. Reduce the time interval for BPDU transmission

Answer: C

355. Using the ACL shown in the figure on the router RTA to match routing entries, which of the following entries will be matched?

[RTA] acl 2002

[RTA-acl-basic-2002] rule deny source 172.16.1.1 0.0.0.0

[RTA-acl-basic-2002] rule deny source 172.16.0.0 0.255.0.0

A. 172.18.0.0/16

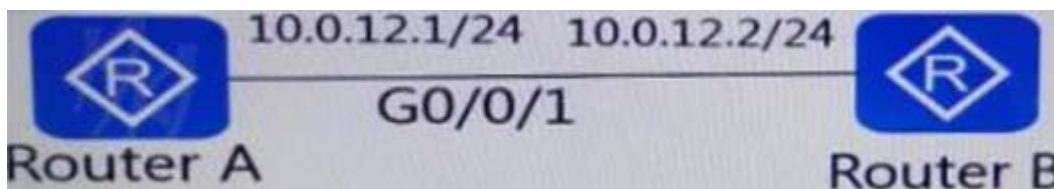
B. 172.16.1.0/24

C. 192.17.0.0/24

D. 172.16.1.1/24

Answer: A

356. As shown in the figure below, Router A has Telnetted Router B through the IP address 10.0.12.2. In the current interface, which of the following operations will cause the Telnet session of Router A and Router B to be interrupted? (Multiple choice)



A. Enable OSPF protocol under G0/0/1 interface

B. Configure static routing

C. Modify the IP address of G0/0/1 interface

D. Close G0/0/1 interface

Answer: CD

357. Which of the following statements about the usage scenarios of the DHCP protocol is correct?

A. After the DHCP request or response message continues to be received in the DHCP, the message format is directly forwarded without modifying the message format

B. Multiple DHCP servers are not allowed in the network

C. The DHCP client and DHCP server must be connected to the same switch

D. If the DHCP client and the DHCP server are not in the same network segment, the DHCP message needs to be forwarded through the DHCP relay

Answer: D

358. Which parameter is used in the spanning tree protocol for root bridge election?

A. Bridge priority

B. Port ID

C. Root path cost

D. Bridge ID

Answer: D

359. What is the coverage area of an AP in WLAN?

- A. SSID
- B. BSSID
- C. BSS
- D. ESS

Answer: C

360. When using Telnet to log in to the router, which authentication methods can be selected? (Multiple choice)

- A. password authentication
- B. AAA local authentication
- C. Not authentication
- D. MD5 ciphertext authentication

Answer: AB

361. What is the destination IP address of the DHCP DISCOVER message?

- A. 255.255.255.255
- B. 224.0.0.1
- C. 224.0.0.2
- D. 127.0.0.1

Answer: A

362. Which of the following does AAA not include?

- A. Authorization
- B. Accounting
- C. Authentication
- D. Audit

Answer: D

363. The following rules exist in a certain ACL of the router:

rule deny tcp source 192.168.1.0 0.0.0.255 destination 172.16.10.1 0.0.0.0 destination-port eq 21

Which of the following statements is correct?

- A. The type of ACL is basic ACL
- B. The source IP is 192.168.1.1, the destination IP is 172.16.10.2, and all TCP packets whose destination port number is 21 match this rule
- C. The source IP is 192.168.1.1, the destination IP is 172.16.10.1, and all TCP packets whose destination port number is 21 match this rule
- D. The source IP is 192.168.1.1, the destination IP is 172.16.10.2, and all TCP packets whose destination port number is 21 match this rule

Answer: C

364. Which of the following message types is used by RADIUS to indicate authentication rejection?

- A. Access-Challenge
- B. Access-Accept

- C. Access-Request
- D. Access-Reject

Answer: D

365. Router Radius information configuration is as follows, which of the following statements are correct?
(Multiple choice)

```
radius-server template Huawei
radius-server shared-key cipher Huawei
radius-server authentication 200.0.12.1 1812
radius-server accounting 200.0.12.1 1813
radius-attribute nas-ip 200.0.12.2
```

#

- A. The source IP address of the Radius packet sent by the router is 200.0.12.2
- B. The IP address of the authorization server is 200.0.12.1
- C. The IP address of the authentication server is 200.0.12.1
- D. The IP address of the accounting server is 200.0.12.1

Answer: BCD

366. With the topology shown in the figure and the configuration on the interconnection ports of the switch, it can be judged that the data frame tagged as VLAN10 can be forwarded normally between the two switches.



```
[LSW1] interface GigabitEthernet 0/0/1
[LSW1-GigabitEthernet0/0/1] port link-type trunk
[LSW1-GigabitEthernet0/0/1] port trunk pvid vlan 20
[LSW1-GigabitEthernet0/0/1] port trunk allow-pass vlan 10
#
```

```
[LSW2] interface GigabitEthernet 0/0/1
[LSW2-GigabitEthernet0/0/1] port link-type trunk
[LSW2-GigabitEthernet0/0/1] port trunk pvid vlan 10
[LSW2-GigabitEthernet0/0/1] port trunk allow-pass vlan 10
```

- A. True
- B. False

Answer: A

367. Which of the following port states does the RSTP protocol does not include?

- A. Learning
- B. Forwarding
- C. Blocking
- D. Discarding

Answer: C

368. How many port states exist in RSTP?

- A. 3
- B. 4
- C. 2
- D. 1

Answer: A

369. When the host frequently moves, which VLAN division method is most appropriate?

- A. Based on port division
- B. Based on IP subnet division
- C. Based on MAC address division
- D. Based on strategy division

Answer: C

370. The MAC address table of the existing switch is shown in the figure. Which of the following statements is correct?

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

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

Total matching items on slot 0 displayed = 1

MAC address table of slot 0:

MAC Address	VLAN/ VSI/SI	PEVLAN	CEVLAN	Port	Type MAC-Tunnel	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. The MAC address 5489-9811-0b49 is manually configured by the administrator
- B. After the switch restarts, all MAC addresses need to be relearned
- C. The MAC address 5489-989d-1d30 is manually configured by the administrator
- D. The MAC address 5489-9885-18a8 is manually configured by the administrator

Answer: A

371. Which of the following parameters does the switching network running STP protocol use in spanning tree calculations? (Multiple choice)

- A. Port ID
- B. Forward Delay
- C. Bridge ID
- D. Root path cost

Answer: ACD

372. VLAN4095 cannot be created on Huawei switches, and VLAN1 cannot be deleted.

- A. True
- B. False

Answer: A

373. After the network administrator uses the Traceroute function on the router device, in the data packet sent by the router, what is the value of the Protocol field in the IPv4 header?

- A. 6
- B. 2
- C. 1
- D. 17

Answer: D

374. On an interface that uses PPP as the data link layer protocol, you can configure a static route by specifying the next hop address or outgoing interface.

- A. True
- B. False

Answer: A

375. Which of the following options does not belong to the SDN network architecture?

- A. Application collaboration layer
- B. Controller layer
- C. Device layer
- D. Chip layer

Answer: D

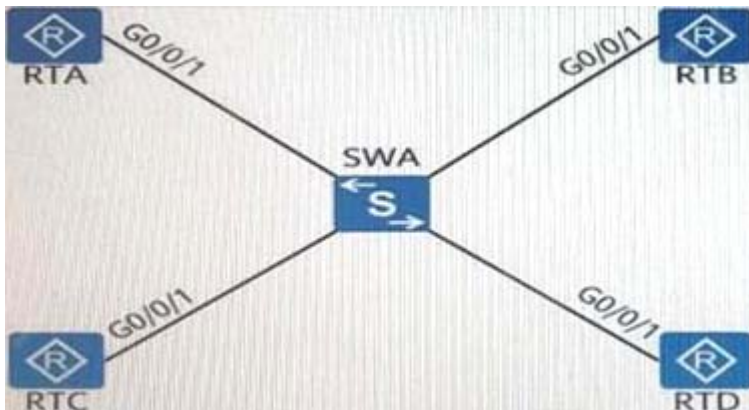
376. The Traceroute diagnostic tool records the _____ of each ICMP TTL timeout message, so that it can provide the user with the IP address through which the message reaches the destination.

- A. Destination port
- B. Destination IP address
- C. Source port
- D. Source IP address

Answer: D

377. In the broadcast network as shown in the figure, OSPF runs on four routers, and they are in the same area and the same network segment.

OSPF will automatically elect one DR and multiple BDRs to achieve better backup results.



- A. True
- B. False

Answer: B

378. Now there are the following four network segments: 10.24.0.0/24, 10.24.1.0/24, 10.24.2.0/24, 10.24.3.0/24, which route can point to these four network segments at the same time?

- A. 10.24.1.0/23
- B. 0.0.0.0/0
- C. 10.24.0.0/22
- D. 10.24.0.0/21

Answer: C

379. What are the network types supported by the OSPF protocol? (Multiple choice)

- A. Point-to-Point
- B. Non-Broadcast Multi-Access
- C. Point-to-Multipoint
- D. Broadcast

Answer: ABCD

380. AC can manually specify the source address or source interface of the CAPWAP tunnel.

- A. True
- B. False

Answer: A

381. Which of the following types of addresses cannot be used as the host's IPv4 address?

- A. Class C address
- B. Class A address
- C. Class B address
- D. Class D address

Answer: D

382. Only one SSID can be bound to one radio frequency of the AP.

- A. True

B. False

Answer: B

383. A company applies for a Class C IP address segment, but it must be allocated to 6 subsidiaries. The largest subsidiary has 26 computers. Different subsidiaries must be in different network segments, so what should the largest subsidiary's network the subnet mask be set to?

A. 255.255.255.128

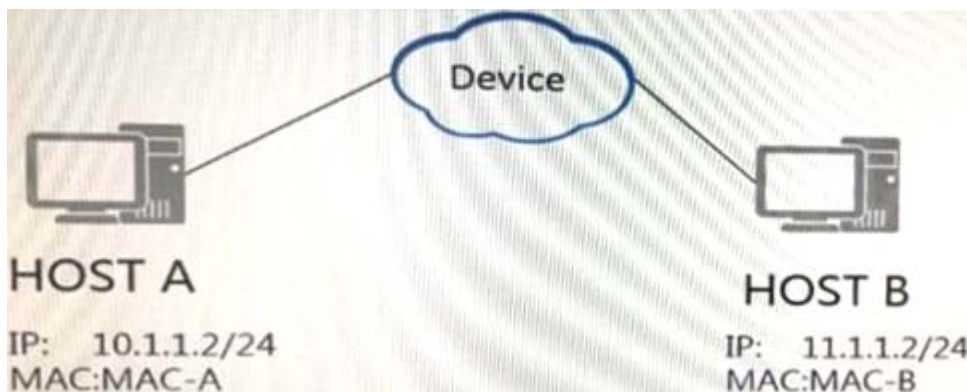
B. 255.255.255.192

C. 255.255.255.224

D. 255.255.255.0

Answer: C

384. As shown in the figure below, which type of network device can host A and host B use to communicate?



A. HUB

B. Hub

C. Layer 2 switch

D. Router

Answer: D

385. When planning the campus network, it is recommended that the server adopt a static IP address.

A. True

B. False

Answer: A

386. Which of the following statement about the ARP message is wrong?

A. ARP request message is sent by broadcast

B. ARP packets cannot be forwarded to other broadcast domains

C. ARP reply message is sent by unicast party

D. Any link layer protocol needs ARP protocol assistance

Answer: D

387. When planning the campus network, which of the following mask lengths is recommended for device interconnection IP addresses?

- A. 30
- B. 32
- C. 16
- D. 24

Answer: A

388. Now it is necessary to implement a Python automation script Telnet to the device to view the running configuration of the device.

Which of the following statement is wrong? (Multiple choice)

- A. You can use `telnet.write (b"display current-configuration \n")` to input the command to view the current configuration of the device
- B. Use `telnet.Telnet (host)` to connect to the Telnet server
- C. `telnet.close` is used after each command is entered, and the function is that the user waits for the switch to return information
- D. Telnetlib can achieve this function

Answer: BC

389. NFV (Network Functional Virtualization), network function virtualization, realizes the deployment of the network in a software-based way.

- A. True
- B. False

Answer: A

390. Which of the following statements about IPv6 address configuration are correct? (Multiple choice)

- A. IPv6 supports stateless automatic configuration
- B. IPv6 addresses can only be configured manually
- C. IPv6 address supports automatic configuration in multiple ways
- D. IPv6 supports DHCPv6 for address configuration

Answer: ACD

391. When the host uses the stateless address automatic configuration scheme to obtain an IPv6 address, the DNS server cannot be obtained.

- A. True
- B. False

Answer: B

392. SNMP packets are carried over TCP.

- A. True
- B. False

Answer: B

393. Which of the following information prompts is used by the VRP operating platform for incomplete input commands?

- A. Error: Incomplete command found at '^' position

- B. Error: Wrong parameter found at '^' position
- C. Error: Ambiguous command found at '^' position
- D. Error: Too many parameters found at '^' position

Answer: A

394. If the network address of a network is 192.168.1.0, then its broadcast address must be 192.168.1.255.

- A. True
- B. False

Answer: B

395. Which of the following working modes are supported by Huawei Enterprise AP? (Multiple choice)

- A. Local
- B. FIT
- C. FAT
- D. Cloud

Answer: BCD

396. Which of the following cannot be the length of the IPv4 packet header?

- A. 60B
- B. 20B
- C. 64B
- D. 32B

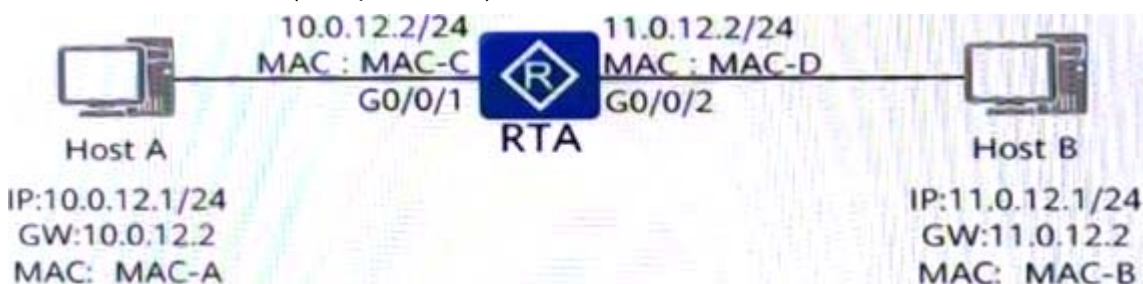
Answer: C

397. The authentication scheme, authorization scheme, accounting scheme, HYTACACS or RADIUS server template created on the AR router can only take effect after being applied under the domain.

- A. True
- B. False

Answer: A

398. In the network shown in the figure below, the host has an ARP cache. Which of the following statements is correct? (Multiple choice)



- A. The following entries may appear in the ARP cache of host A 10.0.12.2 MAC-C
- B. The router needs to be configured with a static route, otherwise host A and host B cannot communicate in both directions
- C. Host A and Host B can communicate in both directions

D. The following entries exist in the ARP cache of host A 11.0.12.1 MAC-B

Answer: AC

399. In Huawei equipment, which of the following methods can be used for OSPF to elect Router ID?
(Multiple choice)

- A. If the Loopback interface is not configured, select the largest IP address among the IP addresses of other interfaces as the Router ID
- B. Huawei switches may use the IP address of the largest VLANIF as the Router ID
- C. If the Loopback interface is configured, select the largest IP address from the IP addresses of the Loopback interface as the Router ID
- D. Manually define an arbitrary legal Router ID
- E. Use the default 127.0.0.1

Answer: ABCD

400. The network administrator uses Ping to test the connectivity of the network. In this process, which of the following protocols may be used?

- A. UDP
- B. ICMP
- C. ARP
- D. TCP

Answer: B

401. The output information of a router's routing table is shown in the figure. Which of the following statements is correct? (Multiple choice)

<R1>display ip routing-table

Route Flags: R - relay, D - download to fib

Routing Tables: Public

Destinations : 10

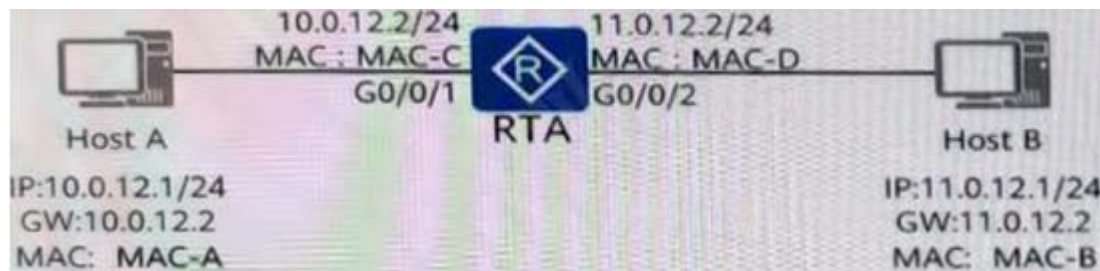
Routes : 10

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
10.0.0.0/8	Static	60	0	RD	10.0.12.2	Ethernet0/0/0
10.0.2.2/32	Static	60	0	RD	10.0.21.2	Ethernet0/0/1

- A. The NextHop for this router to reach 10.0.2.2 is 10.0.12.2
- B. The NextHop for this router to reach 10.0.0.1 is 10.0.12.2
- C. The NextHop for this router to reach 10.0.2.2 is 10.0.21.2
- D. The NextHop for this router to reach 10.0.0.1 is 10.0.21.2

Answer: BC

402. 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. After this data is forwarded by the router, what are the destination MAC and destination IP respectively?



- A. MAC-C, 11.0.12.1
- B. MAC-B, 11.0.12.1
- C. MAC-D, 10.0.12.2
- D. MAC-D, 11.0.12.1

Answer: B

403. Which of the following OSPF version is suitable for IPv6?

- A. OSPFv2
- B. OSPFv3
- C. OSPFv1
- D. OSPFv4

Answer: B

404. By default, the OSPF protocol HELLO message transmission cycle on the broadcast network is ____.

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

Answer: A

405. In the OSPF protocol, which of the following descriptions of DR is correct? (Multiple choice)

- A. If the priority values of the two routers are equal, the router with the larger Router ID will be selected as the DR
- B. DR and BDR should also establish an adjacency relationship
- C. By default, all routers in this broadcast network will participate in the DR election
- D. If the priority values of the two routers are different, select the router with the smaller priority value as the DR

Answer: AB

406. All ports on the root bridge switch are designated ports.

- A. True
- B. False

Answer: B

407. Link aggregation is a common technology in enterprise networks. Which of the following descriptions are the advantages of link aggregation technology? (Multiple choice)

- A. Improve reliability
- B. Improve safety
- C. Realize load sharing
- D. Increase bandwidth

Answer: ABCD

408. Trunk port can allow multiple VLANs to pass, including VLAN4096.

- A. True
- B. False

Answer: B

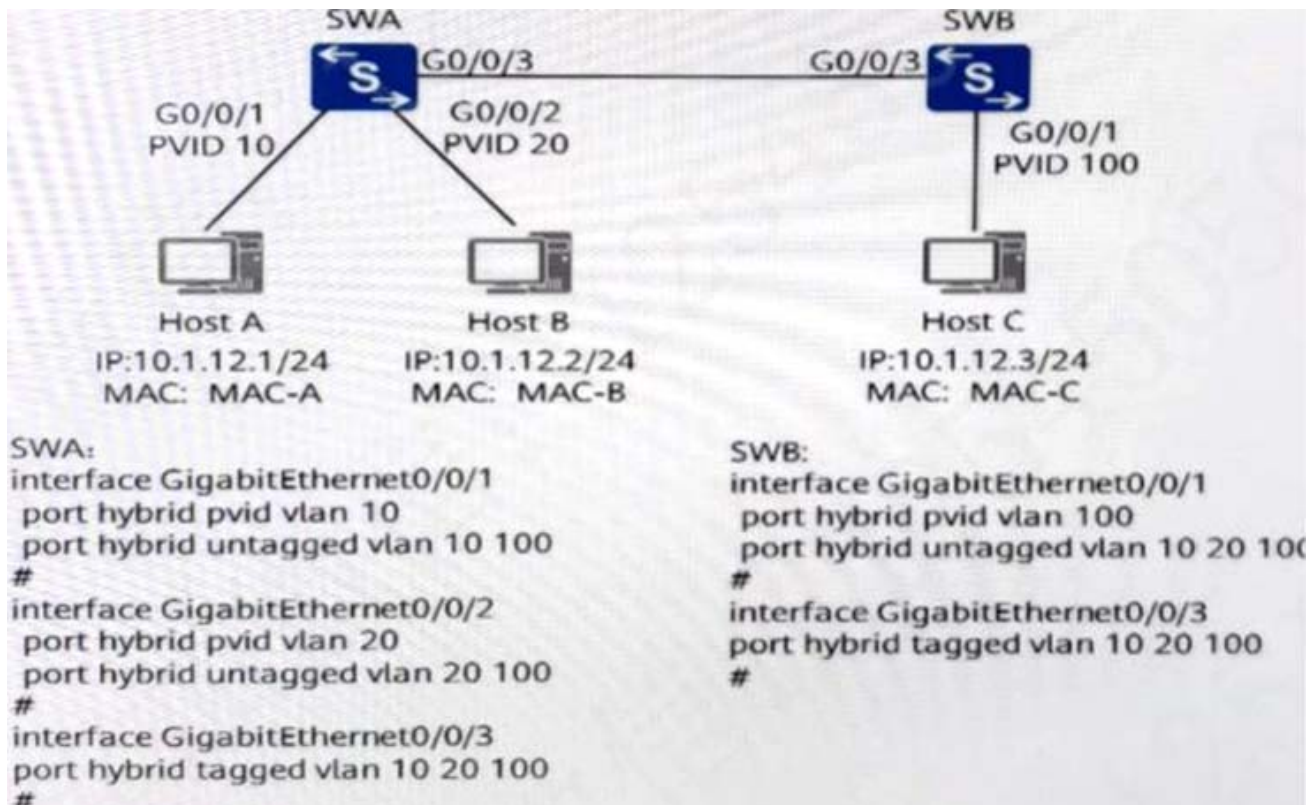
409. The configuration information of a certain interface of the router is as follows, which VLAN packet can this port receive?

```
#
interface GigabitEthernet0/0/2.30
    dot1q termination vid 100
    ip address 10.0.21.1 255.255.255.0
    arp broadcast enable
```

- ```
#
```
- A. 100
  - B. 20
  - C. 30
  - D. 1

**Answer:** A

410. The network is shown in the figure below. Which of the following statements is correct? (Multiple choice)



- A. Host A and Host C can ping through
- B. All hosts can ping each other
- C. Host B and Host C can ping through
- D. Host A and Host B cannot ping through

**Answer:** ACD

411. In order to realize the network layer function on the VLANIF interface, it is necessary to configure \_\_\_\_ on the VLANIF interface. (Multiple choice)

- A. IP prefix
- B. Subnet mask
- C. MAC address
- D. IP address

**Answer:** BD

412. If the Length/Type of an Ethernet data frame = 0x8100, then what may the payload of this data frame be? (Multiple choice)

- A. TCP data segment
- B. ICMP message
- C. ARP message
- D. UDP data

**Answer:** ABCD

413. If STP is not turned on for a network composed of switches, there must be a Layer 2 loop.

- A. True



B. False

**Answer: B**

414. There are hosts in a private network that need to access the Internet. In order to achieve this requirement, which of the following configurations should the administrator do on the edge router of the network? (Multiple choice)

A. Default route

B. NAT

C. STP

D. DHCP

**Answer: AB**

415. RADIUS is a common protocol to implement AAA.

A. True

B. False

**Answer: A**

416. The ICMP message does not contain a port number, so NAT cannot be used.

A. True

B. False

**Answer: B**

417. What are the advantages of using dynamic host configuration protocol DHCP to assign IP addresses? (Multiple choice)

A. Reuse of IP address can be realized

B. Heavy workload and poor management

C. When the configuration information changes (such as DNS), only the administrator needs to modify it on the DHCP server, which is convenient for unified management

D. Avoid IP address conflicts

**Answer: CD**

418. What is the command to configure the data forwarding mode as direct forwarding on the AC?

A. forward-mode direct-forward

B. forward-mode capwap-forward

C. forward-mode tunnel

D. forward-mode direct

**Answer: A**

419. Which of the following messages is used by AP to request software version from AC?

A. Image Data Request

B. Image package Request

C. Software Request

D. VRP System Request

**Answer: A**

420. The AC uses the CAPWAP control tunnel to transmit management messages to the FIT AP.

- A. True
- B. False

**Answer: A**

421. Which of the following statements about RA and RS messages in IPv6 are correct? (Multiple choice)

- A. RS is used to request address prefix information
- B. RS is used to reply address prefix information
- C. RA is used to reply address prefix information
- D. RA is used to request address prefix information

**Answer: AC**

422. A device has been configured to complete the Telnet configuration. The device login address is 10.1.1.10, the Telnet user name is admin, and the password is Huawei@123.

Which of the following is the correct way to use telnetlib to log in to this device?

- A. telnetlib.Telnet (10.1.1.0, admin)
- B. telnetlib.Telnet (10.1.1.0, 23, admin, Huawei@123)
- C. telnetlib.Telnet (10.1.1.0)
- D. telnetlib.Telnet (10.1.1.0, admin, Huawei@123)

**Answer: C**

423. Which of the following are not common devices in the data communication network?

- A. Agile Controller
- B. Router
- C. Firewall
- D. Switch

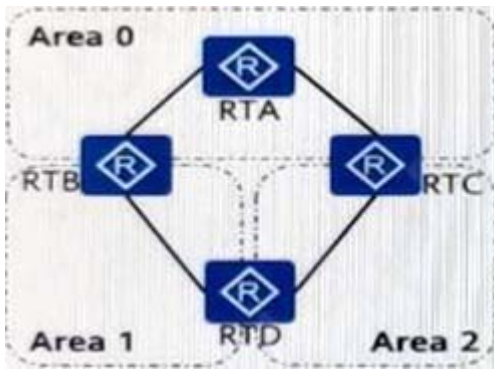
**Answer: A**

424. In the VRP interface, the use of the command deletes or delete/unreserved cannot completely delete the file, it must be emptied in the recycle bin to completely delete the file.

- A. True
- B. False

**Answer: B**

425. The network structure and OSPF partition are shown in the figure. In the figure, except for RTA, the routers RTB, RTC and RTD are all ABR routers.



- A. True
- B. False

**Answer: B**

426. The administrator plans to implement route backup by configuring static floating routes, what is the correct way to achieve this?

- A. The administrator only needs to configure two static routes
- B. The administrator needs to configure different metric values for the main static route and the standby static route
- C. The administrator needs to configure different protocol priority values for the main static route and the standby static route
- D. The administrator needs to configure different TAGs for the main static route and the standby static route

**Answer: C**

427. On which layer of the OSI reference model does the router work?

- A. Application layer
- B. Network layer
- C. Data link layer
- D. Transport layer

**Answer: B**

428. On Huawei AR G3 router, what is the -i parameter of Ping command in VRP used to set?

- A. The interface for sending Echo Request messages
- B. The interface for receiving Echo Reply messages
- C. The source IP address of the Echo Request message
- D. The destination IP address of the received Echo Reply packet

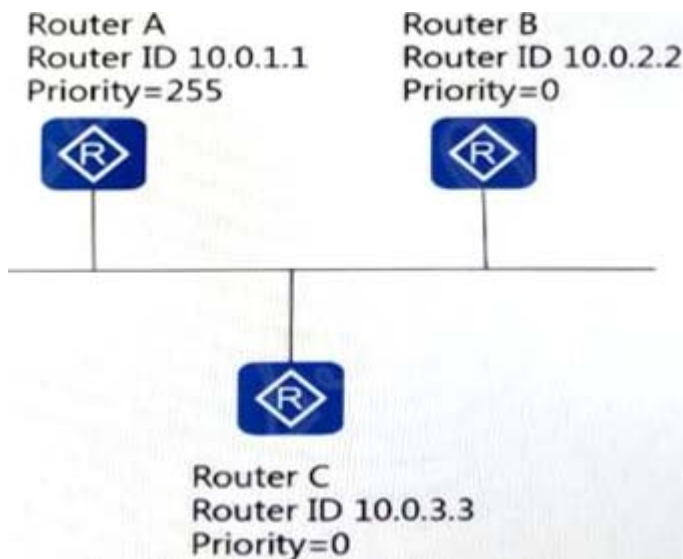
**Answer: A**

429. ip route-static 10.0.2.2 255.255.255.255 10.0.12.2 preference 20, which of the following statement about this command is correct? (Multiple choice)

- A. The priority of this route is 20
- B. The route can guide the forwarding of packets with the destination IP address 10.0.2.2.
- C. This route can guide the forwarding of packets with the destination IP address 10.0.12.2
- D. The Next Hop of this route is 10.0.12.2

**Answer: ABD**

430. In the network shown in the figure below, when the OSPF neighbor status is stable, what are the neighbor status of Router B and Router C?



- A. Full
- B. 2-way
- C. Attempt
- D. Down

**Answer: B**

431. In the network shown in the figure below, switch A and router A are connected by two links, and the two links are aggregated in manual load sharing mode. The aggregated port number is 1, and the aggregated link performs data When forwarding needs to carry VLAN TAG 100. Switch A uses Trunk link. Which of the following configurations should be used for Switch A?



- A. interface Eth-Trunk 1
- port link-type trunk
- port trunk allow-pass vlan 100

#

```
interface GigabitEthernet0/0/1
eth-trunk 1
```

#

```
interface GigabitEthernet0/0/2
eth-trunk 1
```

#

- B. interface Vlanif 100
- ip address 10.0.12.1 255.255.255.0

#

```
C. interface Eth-Trunk 1
ip address 10.0.12.1 255.255.255.0
#
```

```
D. interface Eth-Trunk 1
mode lacp-static
port link-type trunk
port trunk allow-pass vlan 100
#
interface GigabitEthernet0/0/1
eth-trunk 1
#
interface GigabitEthernet0/0/2
eth-trunk 1
#
```

**Answer: D**

432. An existing switch is connected to a designated port through a port, but the port does not forward any messages, but it can listen to network changes by receiving BPDUs, then what should the role of the port be?

- A. Disable port
- B. Alternate port
- C. Designated port
- D. Root port

**Answer: B**

433. The Backup port in RSTP can replace the failed root port.

- A. True
- B. False

**Answer: B**

434. The output information of the STP port of a certain switch is shown in the figure. Which of the following statements is wrong?

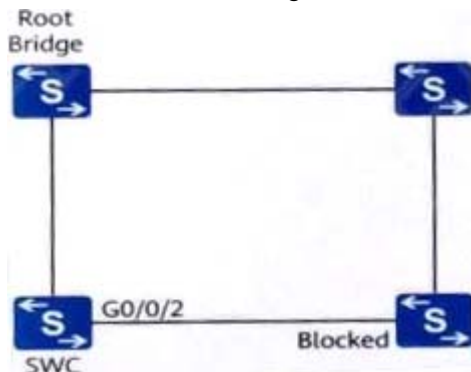
```
[Huawei]display stp interface Ethernet 0/0/1
-----[CIST Global Info][Mode STP]-----
CIST Bridge :32768.4c1f-cc46-4618
Config Times :Hello 4s MaxAge 20s FwDly 15s MaxHop 20
Active Times :Hello 2s MaxAge 20s FwDly 15s MaxHop 20
CIST Root/ERPC :0 .4c1f-ccf7-3214 / 200000
CIST RegRoot/IRPC :32768.4c1f-cc46-4d18 / 0
```

- A. Forward-delay is 20s
- B. Configure the MaxAge of the BPDU to 20s
- C. The period for the port to send configuration BPDUs is 2s

D. The switch is not a root bridge

**Answer: A**

435. As shown in the figure, all four switches run STP, and various parameters adopt default values.



If the G0/0/2 port of switch C is blocked and the configuration BPDU cannot be sent through this port, how long will the blocked port in the network enter the forwarding state?

- A. About 30 seconds
- B. About 50 seconds
- C. About 15 seconds
- D. About 3 seconds

**Answer: B**

436. Complete the ACL configuration as shown in the figure on the router RTA, which of the following descriptions is correct?

```
[RTA]acl 2001
```

```
[RTA-acl-basic-2001]rule 20 permit source 20.1.1.0 0.0.0.255
```

```
[RTA-acl-basic-2001]rule 10 deny source 20.1.1.0 0.0.0.255
```

- A. The VRP system will adjust the sequence number of the first rule to 5 according to the configuration sequence.
- B. The VRP system will not adjust the sequence number, but will first match the rule permit source 20.1.1.0 0.0.0.255
- C. The VRP system will match the rule first in sequence numbering deny source 20.1.1.0 0.0.0.255
- D. Configuration error, the sequence number of the rules must be configured from small to large

**Answer: C**

437. The router enables the FTP service, the user's name and password are both huawei, and the FTP root directory is set to flash:/dhcp/, which of the following commands must be configured? (Multiple choice)

- A. local-user huawei ftp-directory flash:/dhcp/
- B. ftp server enable
- C. local-user huawei password cipher huawei
- D. local-user huawei service-type ftp

**Answer: ABCD**

438. At present, the company has a network administrator. The AR2200 in the company network can be remotely managed by directly entering the password through Telnet. After the two new network administrators arrived, the company hopes to assign their own user names and passwords to all administrators, as well as different levels of authority. So how should it be done? (Multiple choice)

- A. When configuring each administrator's account, different permission levels need to be configured
- B. The user authentication mode configured by Telnet must select AAA mode
- C. Configure three user names and their corresponding passwords in the AAA view
- D. Each administrator uses a different public IP address of the device when running the Telnet command

**Answer:** ABC

439. What is the server port number used by the Telnet protocol by default?

- A. 24
- B. 21
- C. 23
- D. 22

**Answer:** C

440. What is the maximum negotiation rate supported by the IEEE 802.11g standard?

- A. 300Mbps
- B. 150Mbps
- C. 1200Mbps
- D. 54Mbps

**Answer:** D

441. In order to realize the launch of FIT AP, FIT AP first needs to obtain the IP address of AC. Which of the following is not included in the way that FIT AP obtains the IP address of AC?

- A. Broadcasting mode
- B. Multicast mode
- C. Static designation mode on AP
- D. DHCP Option mode

**Answer:** B

442. What is the value of TPID defined by IEEE802.1Q?

- A. 0x9100
- B. 0x8200
- C. 0x7200
- D. 0x8100

**Answer:** D

443. Which of the following descriptions about firewalls is wrong?

- A. The firewall can realize access control between different networks
- B. The firewall can isolate networks of different security levels
- C. The firewall can realize user identity authentication
- D. The firewall cannot implement network address translation

**Answer: D**

444.Which of the following networks belong to a local area network? (Multiple choice)

- A. A home network
- B. Broadband Metropolitan Area Network
- C. Office network of a company
- D. Internet

**Answer: AC**

445.Which of the following statements about direct routing is correct?

- A. Direct routing has lower priority than dynamic routing
- B. Direct routing requires the administrator to manually configure the destination network and next hop address
- C. Direct routing have lower priority than static routing
- D. Direct routing has the highest priority

**Answer: D**

446.The output information of a certain router is shown in the figure. Which of the following statements are correct? (Multiple choice)

`<R1>dis ospf peer`

### OSPF Process 1 with Router ID 10.0.2.2 Neighbors

Area 0.0.0.0 interface 10.0.12.2(GigabitEthernet0/0/0)'s neighbors

Router ID: 10.0.1.1      Address: 10.0.12.1

State: Full Mode:Nbr is Slave Priority: 1

DR: 10.0.12.2 BDR: 10.0.12.1 MTU: 0

Dead timer due in 32 sec

Retrans timer interval: 5

Neighbor is up for 00:03:30

Authentication Sequence: [ 0 ]

- A. The Router ID of the router is 10.0.1.1
- B. This router is DR
- C. The interface address of this router is 10.0.12.2
- D. The Router ID of the router is 10.0.2.2.

**Answer: BCD**

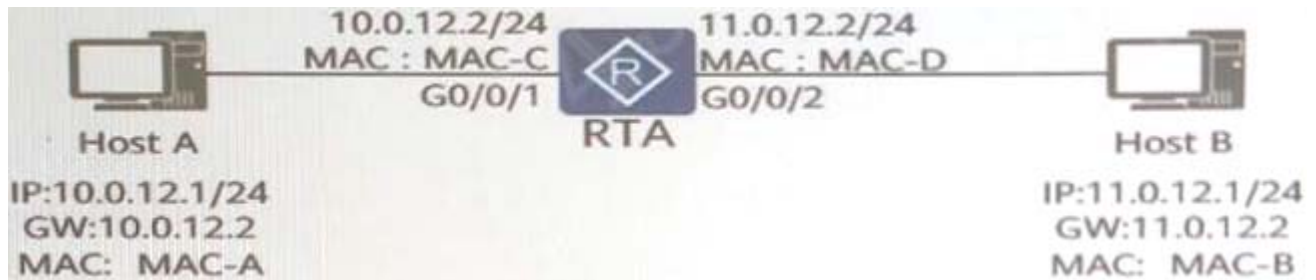
447.The change of the Router ID of the OSPF process takes effect immediately.

- A. True
- B. False



**Answer: B**

448. In the network shown in the figure below, the host has an ARP cache, and host A sends a packet to host B. What are the destination MAC and destination IP of this packet respectively?



- A. MAC-C, 11.0.12.1
- B. MAC-B, 11.0.12.1
- C. MAC-A, 11.0.12.1
- D. MAC-C, 10.0.12.2

**Answer: A**

449. Which of the following descriptions are wrong about the Forwarding status in the spanning tree protocol? (Multiple choice)

- A. The port in the Forwarding state does not learn the source MAC address of the packet
- B. Ports in the Forwarding state must send BPDU packets
- C. The port in the Forwarding state can forward data packets
- D. The port in the Forwarding state can receive BPDU packets

**Answer: AB**

450. The switch becomes a logical switch after stacking and clustering, and Eth-Trunk across physical devices can be deployed to improve network reliability.

- A. True
- B. False

**Answer: A**

451. As shown in the figure, if the command ping 10.1.1.2 is executed on R1, the data frame of VLAN 10 received by LSW1 from LSW2 is tagged.



```
[R1]interface GigabitEthernet 0/0/0
[R1-GigabitEthernet0/0/0]ip address 10.1.1.1 255.255.255.0
```

```
[LSW1]interface GigabitEthernet 0/0/1
[LSW1 -GigabitEthernet0/0/1]port hybrid untagged vlan 10 20
[LSW1-GigabitEthernet0/0/1]port hybrid pvid vlan 10
[LSW1]interface GigabitEthernet 0/0/2
[LSW1-GigabitEthernet0/0/2]port link-type trunk
[LSW1-GigabitEthernet0/0/2]port trunk allow-pass vlan 10 20
```

```
[LSW2]interface GigabitEthernet 0/0/2
[LSW2-GigabitEthernet0/0/2]port link-type trunk
[LSW2-GigabitEthernet0/0/2]port trunk allow-pass vlan 10 20
[LSW2]interface Vlanif 10
[LSW2-Vlanif10]ip address 10.1.1.2 255.255.255.0
```

- A. True
- B. False

**Answer:** A

452.Which of the following statements are correct about link aggregation in manual load balancing mode?

- A. In manual load sharing mode, all active interfaces participate in data forwarding, sharing load traffic
- B. There can only be 4 active ports in manual load sharing mode
- C. In manual load sharing mode, devices at both ends of the link send LACP packets to each other
- D. The number of active ports can be configured in manual load sharing mode

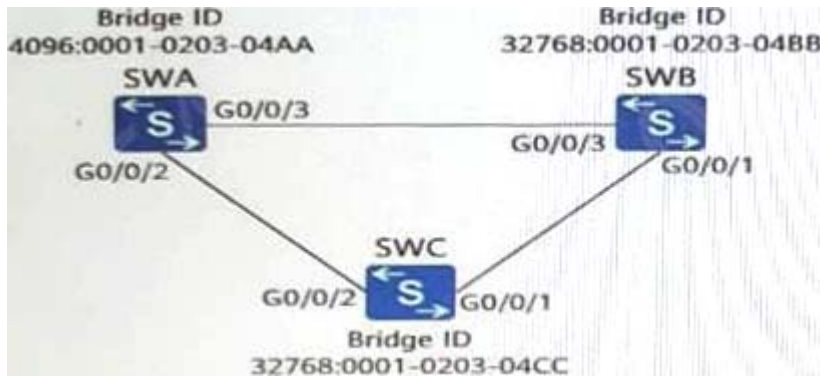
**Answer:** D

453.What is the transmission rate related to about the Eth-Trunk port in manual link aggregation mode?  
(Multiple choice)

- A. Is the member port on the public network or on the private network?
- B. Is an IP address configured on the member port
- C. Bandwidth of member ports
- D. Number of member ports

**Answer:** CD

454.As shown in the figure below, assuming that the other configurations of the switch are kept in the default state, which port of the following switch will become the designated port? (Multiple choice)



- A. SWB's G0/0/1
- B. SWC's G0/0/2
- C. SWA's G0/0/3
- D. SWC's G0/0/1

**Answer: AC**

455."The network administrator created VLAN 10 on the Layer 3 switch and configured an IP address under the virtual interface of the VLAN.

When using the command "display ip interface brief" to view the interface status, it is found that the VLANIF 10 interface is in the down state. What should be done to make the VLANIF 10 interface back to normal?

- A. Assign a physical interface that must be Up to VLAN 10
- B. Add an interface that must be Up and must be of type Trunk into VLAN 10
- C. Assign any physical interface to VLAN 10
- D. Use the command "undo shutdown" under the VLANIF 10 interface

**Answer: A**

456.In the RSTP protocol, when the root port fails, ( ) will quickly switch to the new root port and immediately enter the forwarding state.

- A. Forwarding port
- B. Alternate port
- C. Backup port
- D. Edge port

**Answer: B**

457.The configuration information of a certain router is shown in the figure. Which of the following statements is correct?

```
#
aaa
authentication-scheme default
authentication-scheme huawei
authentication-mode radius
authorization-scheme default
authorization-scheme huawei
accounting-scheme default
domain default
domain default_admin
domain huawei
authentication-scheme huawei
authorization-scheme huawei
local-user huawei password cipher 123456
local-user huawei@huawei password cipher 654321
#
```

- A. The domain with the domain name huawei does not use the billing plan
- B. Use the username huawei for authentication, the password needs to be 654321
- C. The authentication method for the domain with the domain name huawei is local authentication
- D. The authorization method for the domain with the domain name huawei is local authorization

**Answer: D**

458. Use the command `kdir test` in the VRP operating platform. The system will create a directory named `test`.

- A. True
- B. False

**Answer: A**

459. Because the TCP protocol uses a three-way handshake mechanism when establishing a connection and closing a connection, TCP supports reliable transmission.

- A. True
- B. False

**Answer: B**

460. VRP operating system commands are divided into four levels: access level, monitoring level, configuration level, and management level.

Which level can run various business configurations and set commands but cannot operate the file system?

- A. Configuration level
- B. Access level

- C. Management level
- D. Monitoring level

**Answer: A**

461.What command can be typed in the system view to switch to the user view?

- A. quit
- B. souter
- C. system-view
- D. user-view

**Answer: A**

462.A company applies for a Class C IP address segment, which needs to be evenly distributed to 8 subsidiaries. The largest subsidiary has 14 computers. Different subsidiaries must be in different network segments. What should be the subnet mask set to?

- A. 255.255.255.192
- B. 255.255.255.240
- C. 255.255.255.0
- D. 255.255.255.128

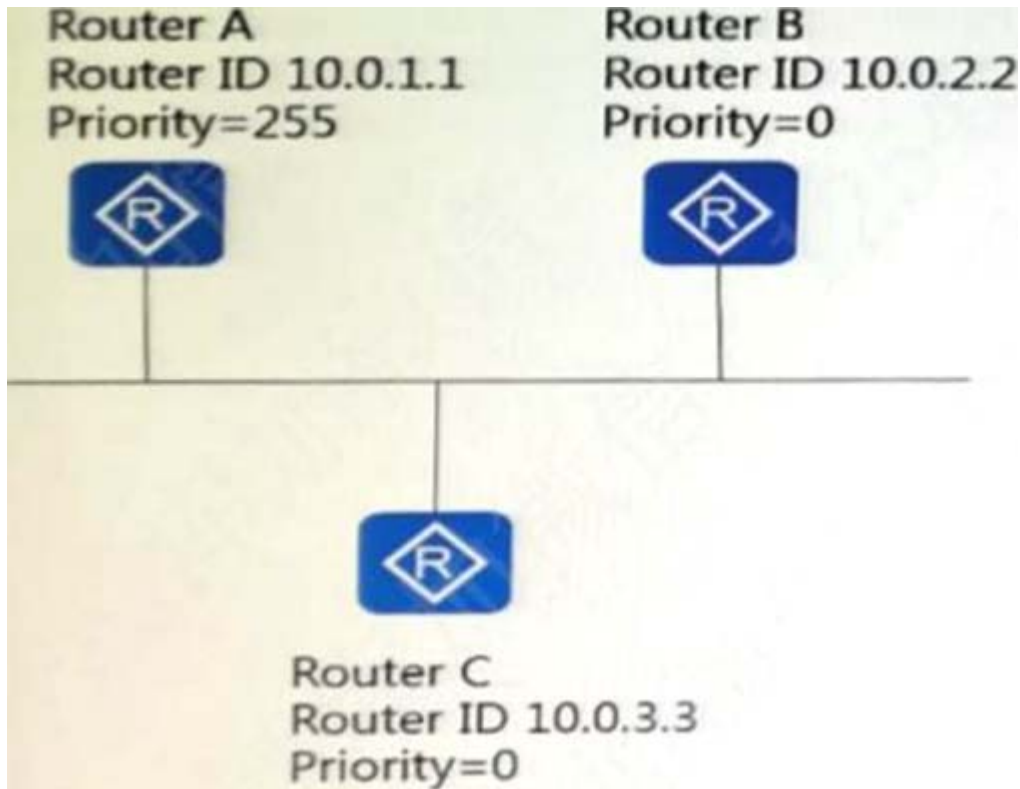
**Answer: B**

463.After the network administrator uses the Tracert Route function on the router device, in the data packet sent by the router, which value is the Protocol field in the IPv4 header?

- A.17
- B. 2
- C. 1
- D. 6

**Answer: A**

464.In the network shown in the figure below, which router is the BDR in this network?



- A. Router A
- B. Router B
- C. No BDR
- D. Router C

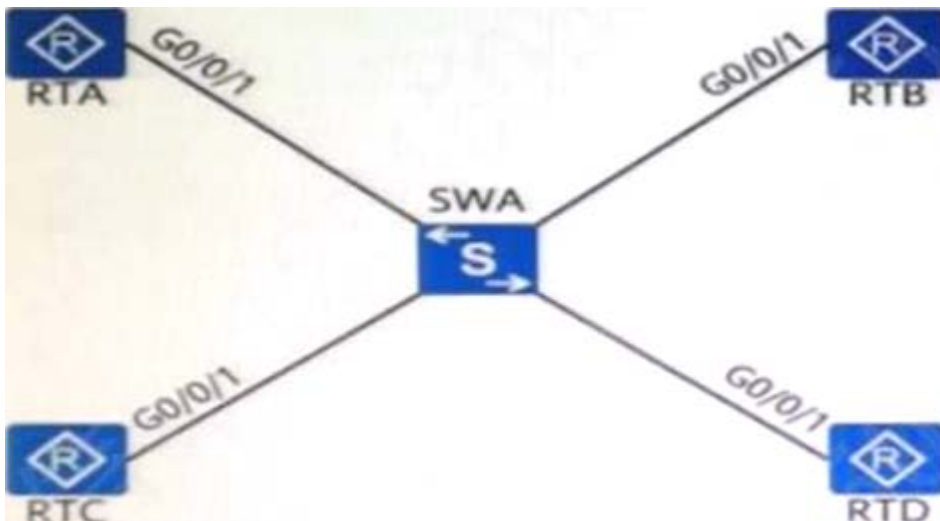
**Answer: C**

465. Which of the following fields is not included in the HELLO packet of the OSPF protocol?

- A. Network Mask
- B. Neighbor
- C. sysname
- D. Hello Interval
- E. Hello Interval

**Answer: C**

466. As shown in the broadcast network, OSPF runs on four routers in the same area. Same network segment. OSPF will automatically elect one DR and multiple BDRs to achieve a better backup effect.



- A. True
- B. False

**Answer: B**

467. Which of the following protocols belong to the link state routing protocol?

- A. PTP
- B. OSPF
- C. Direct
- D. Static

**Answer: B**

468. When two OSPF routers form a 2-way neighbor relationship, the LSDB has been synchronized.

- A. True
- B. False

**Answer: B**

469. The change of the Router ID of the OSPF process takes effect immediately.

- A. True
- B. False

**Answer: B**

470. The Router ID of OSPF must be the same as the IP address of a certain interface of the router.

- A. True
- B. False

**Answer: B**

471. The following two configuration commands can realize the router R1A to the same destination 10.1.1.0 routing master and backup backup.

```
[RTA] ip route-static 10.1.1 0 24 12.1.1.1 permanent
```

```
[RTA] ip route-static 10.1.1.0 24 13.1.1.1
```

- A. True



B. False

**Answer: B**

472.The administrator wants to configure the IP address on the G0/0/0 interface of the router. Which of the following addresses is correct?

- A. 237.6.1.2/24
- B. 145.4.2.55/26
- C. 127.3.1.4/28
- D. 192. 168.10.112/30

**Answer: B**

473.The MAC address table of the existing switches is shown in the figure. Which of the following statements are correct?

The screenshot shows two MAC address tables for slot 0. The first table shows a static entry for MAC 5489-9811-0b49 on port Eth0/0/3. The second table shows two dynamic entries for MACs 5489-989d-1d30 and 5489-9885-18a8 on ports Eth0/0/1 and Eth0/0/2 respectively.

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

Total matching items on slot 0 displayed = 1

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

- A. The data frame with the source MAC address of 5489-9811-0b49 and the destination MAC address of 5489-989d 1d30 is received from the port and forwarded from the Eth0/0/2 port
- B. The data frame with the source MAC address of 5489-9885- 18a8 and the destination MAC address of 5489-989d-1d30 is received from the port and forwarded from the Eth0/0/1 port
- C. When the switch restarts, the MAC address learned by port Eth0/0/2 does not need to be relearned

**Answer: B**

474.By default, the bridge priority of Huawei switches is 32768.

- A. True
- B. False

**Answer: A**

475.Which of the following port states does the RSTP protocol contain? (Multiple choice)

- A. Discarding
- B. Forwarding
- C. Listening
- D. Learning

**Answer: ABD**



476. The switch GE0/0/1 port configuration information is shown in the figure. Which VLAN data frame does the switch not carry when forwarding?

```

#
interface GigabitEthernet0/0/1
 port link-type trunk
 port trunk pvid vlan 10
 port trunk allow-pass vlan 10 20 30 40
#

```

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

**Answer: B**

477. Which statement is correct about the dynamic AC address table? (Multiple choice)

- A. The dynamic MAC table entries obtained through the source AC address learning in the message will age
- B. By viewing the number of specified dynamic MAC address table entries, you can get the number of users communicating under the interface. After the device restarts, the previous dynamic table entries will be lost
- C. After the device restarts, the previous dynamic entries will be lost
- D. After the device restarts, the previously saved entries will not be lost

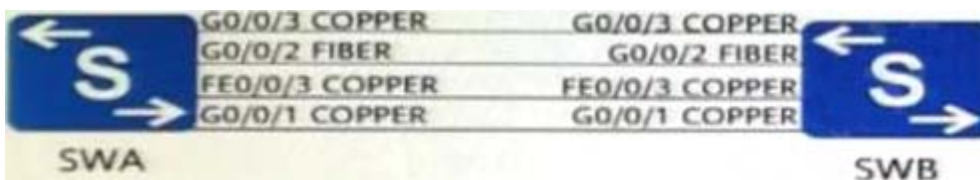
**Answer: AC**

478. There is a Forward Delay when the STP port transitions between ( ) states. (Multiple choice)

- A. Forwarding-Disabled
- B. Learning-Forwarding
- C. Disabled-Blocking
- D. Blocking-Listening
- E. Listening-Learning

**Answer: BE**

479. In the network shown in the figure below, two switches are connected by four links. CUPPER refers to the electrical interface and FIBER refers to the optical interface. Then which of the following two interfaces can achieve link aggregation?



- A. G0/0/2 and FE0/0/3
- B. G0/0/3 and FE0/0/3
- C. G0/0/2 and G0/0/1
- D. G0/0/3 and G0/0/2

**Answer: D**

480.What is the length of the Ethernet\_II frame containing the Ethernet header?

- A. 64-1518B
- B. 60-1560B
- C. 46-1500B
- D. 64-1500B

**Answer: A**

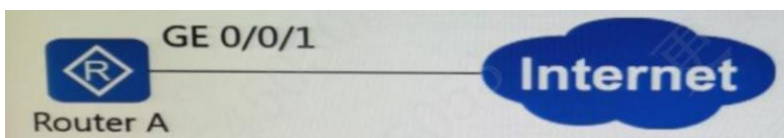
481.If the Length/Type of an Ethernet data frame = 0x8100. Which of the following statements is correct?

- A. There must be a UDP header in the upper layer of this data frame
- B. There must be an IP header in the upper layer of this data frame
- C. There is always a TCP header in the upper layer of this data frame
- D. This data frame must carry VLAN TAG

**Answer: D**

482.Network as shown in the figure. The administrator hopes that all hosts cannot access the Web service (the port number is 80) and other services can be accessed normally.

Then in the interface configuration of G0/0/1, which ACL rule needs to be bound to trattie-frilter outbound?



- A. acl number 3002  
rule 5 permit ip  
rule 10 deny tcp destination-port eq www  
#
- B. acl number 3003  
rule 5 permit ip  
rule 10 deny udp destination-port eq www  
#
- C. acl number 3001  
rule 5 deny udp destination-port eq www  
rule 10 permit ip  
#
- D. acl number 3000  
rule 5 deny tcp destination-port eq www  
rule 10 permit ip  
#

**Answer: D**

483.The G0/0/1 interface configuration information of router A is shown in the figure. Which of the following statements are correct? (Multiple choice)

```
#
acl number 3000
 rule 5 deny 17
 rule 10 deny 89
 rule 15 deny 6
#
interface GigabitEthernet0/0/1
 traffic-filter inbound acl 3000
#
```

- A. The interface will not forward the received FTP packets
- B. This interface can establish OSPF neighbor relationships with other routers
- C. This interface will not forward ICMP packets
- D. This interface will not forward received SNMP packets

**Answer: AD**

484. The administrator has configured the router as shown in the figure. At the same time, the administrator wants to assign a shorter lease period to the DHCP address. Which of the following commands should be used?

```
ip pool pool1
 network 10.10.10.0 mask 255.255.255.0
 gateway-list 10.10.10.1
```

- A. lease day 0 hour 10
- B. lease 24
- C. dhcp select relay
- D. lease

**Answer: A**

485. The AP can independently complete wireless user access, wireless user authentication, and service data forwarding without an AC.

- A. True
- B. False

**Answer: B**

486. The AC uses the CAPWAP control tunnel to transmit management messages to the FIt AP.

- A. True
- B. False

**Answer: A**

487. The WPLS tag header is encapsulated between the data link layer header and the network layer header of the message.

- A. True
- B. False

**Answer: A**

488. Which of the following statements about IPv6 anycast addresses are correct? (Multiple choice)

- A. Anycast address and single address address use the same address space

- B. Provide redundant functions for services
- C. The packet whose destination address is the anycast address will be sent to the nearest network interface in the sense of routing
- D. Realize service load sharing

**Answer:** ABC

489.Which of the following statements about Python is incorrect?

- A. Python has a wealth of third-party libraries.
- B. Python is a fully open source high-level programming language.
- C. Python can be used in many fields such as automated operation and maintenance scripts, artificial intelligence, and data science.
- D. Python has a clear grammatical structure, simple and easy to learn, while running efficiently.

**Answer:** D

490.When two switches are interconnected using link aggregation technology, which of the following conditions must be met by each member port? (Multiple choice)

- A. The number of physical ports connected at both ends is the same
- B. The physical ports connected at both ends have the same rate
- C. The duplex modes of the physical ports connected at both ends are the same
- D. The physical numbers of the physical ports connected at both ends are the same
- E. The physical ports connected at both ends use the same optical module model

**Answer:** ABC

491.What kind of message does the OSPF protocol use to send LSA to neighbors?

- A. LSR
- B. LSACK
- C. LSU
- D. LSA

**Answer:** C

492.Which of the following are communication networks? (Multiple choice)

- A. Use computer to watch videos online
- B. Use a computer to access the official network
- C. Download emails from the company's mailbox to your computer
- D. Use instant messaging software (such as QQ, WeChat) to chat with friends

**Answer:** ABCD

492.Now there are the following four network segments: 10.24.0.0/24, 10.24.1.0/24, 10.24.2.0/24, 10.24.3.0/24, which route can point to these four network segments at the same time?

- A. 0.0.0.0/0
- B. 10.24.1.0/23
- C. 10.24.0.0/21
- D. 10.24.0.0/22

**Answer:** D

494.Which of the following statements are incorrect? (Multiple choice)

- A. If the route cost value is larger, the route priority is higher
- B. By default, direct routes have a higher priority than OSPF routes
- C. In VRP, the higher the routing priority value, the higher the routing priority
- D. The priority of each static route can be different

**Answer: AC**

495.The user cannot set the VLAN ID to 0.

- A. True
- B. False

**Answer: A**

496.What is the total length of the VLAN frame defined by IEEE802.1Q?

- A. 1
- B. 2
- C. 3
- D. 4

**Answer: D**

497.A host must be configured with a gateway to communicate with other hosts.

- A. True
- B. False

**Answer: B**

498.FAT AP can independently complete wireless access, wireless user definition, and service data forwarding without AC.

- A. True
- B. False

**Answer: A**

499.Which of the following mobile wireless service standards is not included in the history of WLAN development?

- A. 802.11b
- B. 802.11a
- C. 802.11g
- D. 802.11ac

**Answer: D**

500.What are the main components of SNMP? (Multiple choice)

- A. Agent process
- B. Managed equipment
- C. Network management station
- D. Management Information Base

**Answer: ABCD**

501.The campus network can improve network reliability through link aggregation and stacking.

- A. True
- B. False

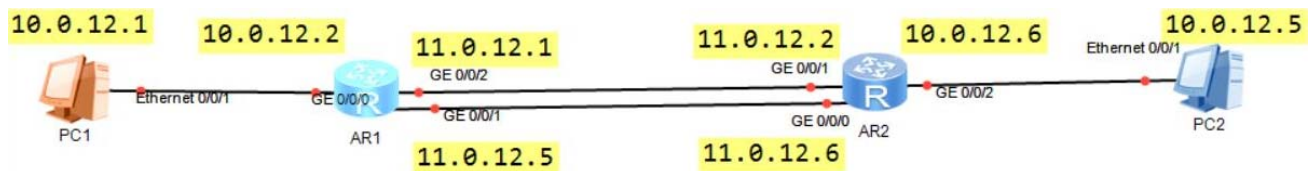
**Answer: A**

502.The login timeout function in VRP can only be set under the VTY interface.

- A. True
- B. False

**Answer: B**

503.When a company's network management wants to plan the network, which can allow PC1 to access the data packets of PC2 go through the G0/0/0 port (G0/0/2 in the figure) and PC2 accesses the data packet of PC1 from G0/0/4 port (G0/0/0 in the picture)?



- |             |                 |           |
|-------------|-----------------|-----------|
| A.10.0.12.5 | 255.255.255.255 | 11.0.12.6 |
| 10.0.12.1   | 255.255.255.255 | 11.0.12.1 |
| B.10.0.12.5 | 255.255.255.255 | 11.0.12.2 |
| 10.0.12.1   | 255.255.255.255 | 11.0.12.5 |
| C.0.0.0.0   | 0               | 11.0.12.6 |
| 0.0.0.0     | 0               | 11.0.12.1 |
| D.0.0.0.0   | 0               | 11.0.12.2 |
| 0.0.0.0     | 0               | 11.0.12.5 |

**Answer: B**

504.What is the priority of OSPF on Huawei routers?

- A. 10
- B. 0
- C. 30
- D. 70

**Answer: A**

505.Two routers configured with OSPF, configure silent-interface s0/0/0 on A. Which of the following statements are correct? (Multiple choice)

- A. RTA will not send OSPF packets
- B. RTA will continue to receive and analyze the ospf message sent by B.
- C. The neighbors of the two routers are not affected
- D. The neighbors of the two routers will be down

**Answer: AD**

506.Which of the following statements are wrong about static routing in Huawei equipment? (Multiple choice)

- A. When the priority of a static route is 0, the route must be preferred.
- B. The cost value of the static route cannot be modified
- C. The default priority of static routes is 60
- D. The priority range of static routing is 0-255

**Answer:** AD

507.Regarding the configuration of the switch port, which of the following statements is wrong?  
interface GigabitEthernet 0/0/2

port hybrid pvid vlan 100

port hybrid tagged vlan 100

port hybrid untagged vlan 200

- A. If the vlan tag carried in the data frame is 200, the tag will be stripped and forwarded
- B. If you receive a data frame without a vlan tag, the switch should add a vlan tag 100
- C. The interface type is hybrid
- D. If the vlantag carried in the data frame is 100, the tag is stripped and forwarded.

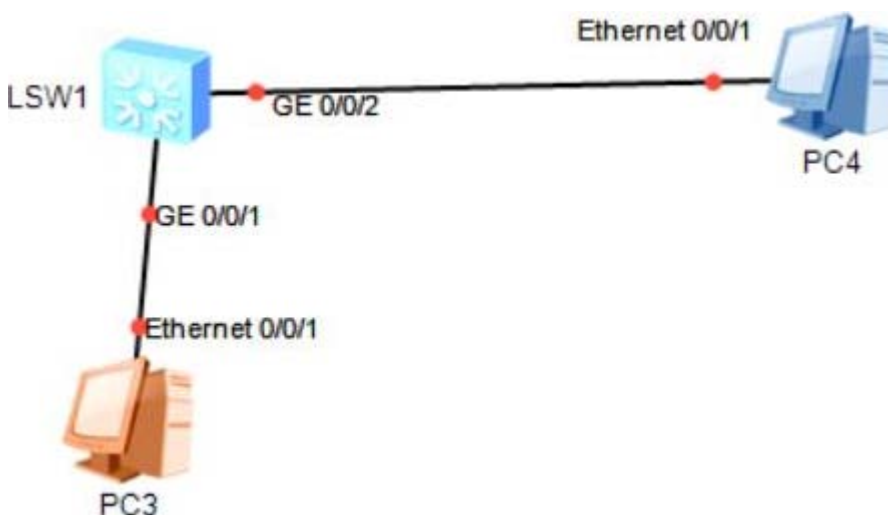
**Answer:** D

508.The switch can use vlan batch to create vlan in batches to simplify configuration.

- A. True
- B. False

**Answer:** A

509.According to the following configuration, which of the following statements are correct? (Multiple choice)



```
int g0/0/1
```

```
port hybrid pvid vlan 20
```

```
port hybrid pvid vlan 10
```

```
int g0/0/2
```

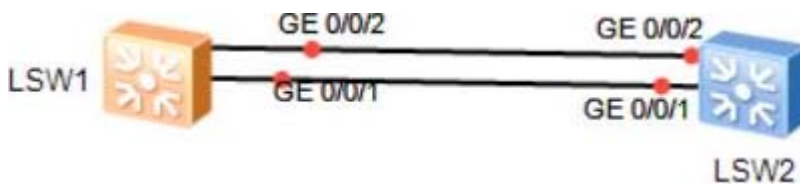
port hybrid untagged vlan 10 20

port hybrid untagged vlan 10 20

- A. Host A (PC3) can ping host B (PC4)
- B. The pvid of the G0/0/1 port of the switch is 20
- C. The two link data frames do not contain vlan tag
- D. Host A (PC3) cannot ping host B (PC4)

**Answer:** ABC

510. Two switches use manual link aggregation at the same time. Which of the following statements is wrong?



- A. Only port G0/0/2 is turned off on switch B, and the Eth-Trunk status is still UP
- B. Turn off the G0/0/1 and G0/0/2 ports on switch B, and the Eth-Trunk status is still UP
- C. Only port G0/0/1 is turned off on switch B, and the Eth-Trunk status is still UP
- D. Turn off the G0/0/1 and G0/0/2 ports on switch B, and the Eth-Trunk status is down

**Answer:** B

511. By default, the bridge priority of the switch spanning tree is 32768 by default.

- A. True
- B. False

**Answer:** A

512. What is the range of basic ACL numbers?

- A. 4000-4999
- B. 2000-2999
- C. 6000-6031
- D. 3000-3999

**Answer:** B

513. In VTY, max-vty can set multiple users to use Telnet to log in to this device at the same time.

- A. True
- B. False

**Answer:** A

514. The AP working mode does not allow switching.

- A. True
- B. False

**Answer:** B

515. What are the AC authentication methods for capwap tunnel establishment? (Multiple choice)



- A. No authentication
- B. MAC authentication
- C. Password authentication
- D. SN authentication

**Answer:** ABD

516. In the IEEE802.11 standard, which one can support both the 2.4G frequency band and the 5G frequency band?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** D

517. In the IEEE802.11 standard, which ones only support the 2.4G frequency band? (Multiple choice)

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** BC

518. Which encryption algorithm used by WLAN has the highest security strength?

- A. WEP
- B. AES
- C. CCMP
- D. TKIP

**Answer:** C

519. The Layer 2 networking of WLAN means that the STA uses the AC as its gateway.

- A. True
- B. False

**Answer:** B

520. The WEP security policy supports the use of TKIP for data encryption.

- A. True
- B. False

**Answer:** B

521. Which equipments are generally involved in the WLAN deployment plan in the enterprise scenario? (Multiple choice)

- A. PoE switch
- B. AC
- C. AP
- D. CPE

**Answer:** ABC

522. Switch stacking supports more than two devices, and multiple switches can be combined into a logical device through stacking.

- A. True
- B. False

**Answer:** A

523. Which of the following is a link state protocol?

- A. Direct
- B. static
- C. FTP
- D. OSPF

**Answer:** D

524. What address does 192.168.1.127/25 represent?

- A. Unicast
- B. Host
- C. Broadcast
- D. Multicast

**Answer:** C

525. Which stage of the campus network construction life cycle is the beginning of the project?

- A. Network optimization
- B. Network implementation
- C. Network operation and maintenance
- D. Network planning and design

**Answer:** D

526. In the campus network planning, static IP addresses are recommended for servers.

- A. True
- B. False

**Answer:** A

527. Which of the following fields does the message format contain? (Multiple choice)

- A. Operation type
- B. protocol type
- C. Hardware type
- D. protocol Address of sender

**Answer:** ABCD

528. What is the broadcast address of 200.200.200.200/30?

- A. 200.200.200.203
- B. 200.200.200.200

C. 200.200.200.255

D. 200.200.200.252

**Answer: A**

529. When OSPF establishes adjacency, which of the following parameters must be set consistent?

(Multiple choice)

A. Router Priority

B. Router ID

C. Area ID

D. Router Dead Interval

**Answer: CD**

530. What protocols are used by network administrators to test network connectivity? (Multiple choice)

A. UDP

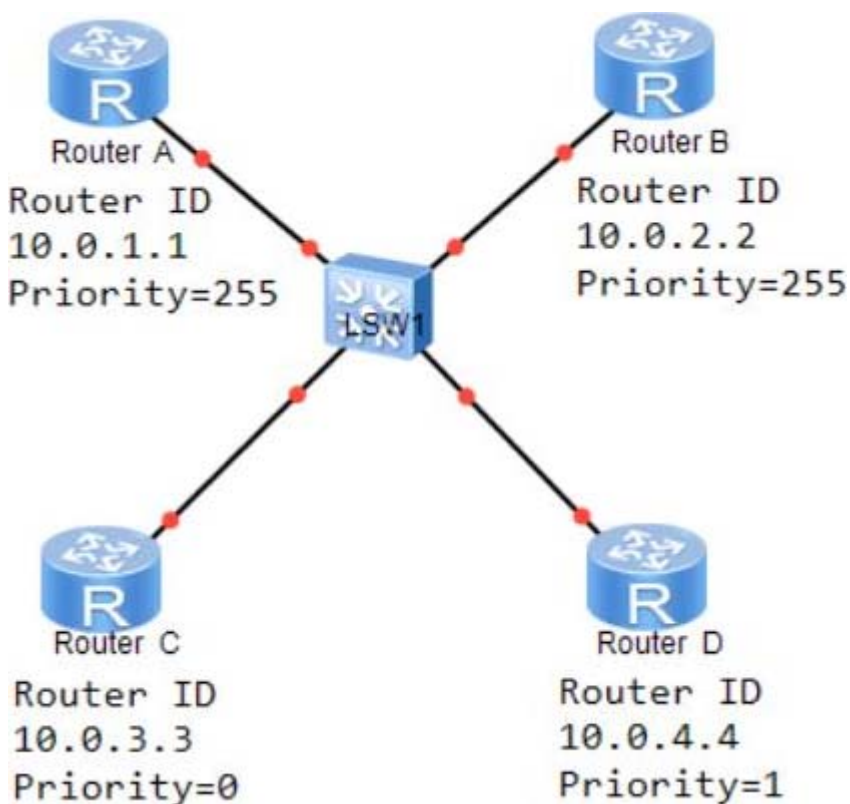
B. TCP

C. ARP

D. ICMP

**Answer: CD**

531. As shown in the figure, when the routers use the OSPF protocol at the same time, which BDR is in this network?



A. Router A

B. Router B

C. Router C

D. Router D

**Answer: A**

532.The LACP mode of link aggregation uses LACPDU to elect the active end. Which of the following information will not be carried in LACPDU? (Multiple choice)

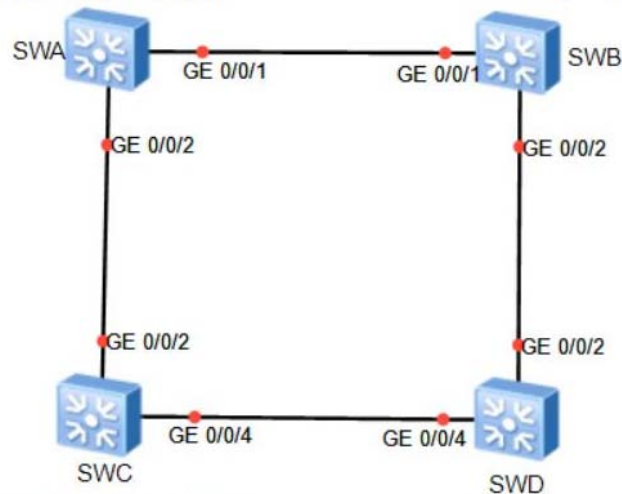
- A. MAC address
- B. Interface description
- C. Interface priority
- D. Device priority

**Answer: AB**

532.As shown in the following figure, in the switching network, all switches are running the stp protocol. When the topology is stable, which of the following switches can modify the BPDU sending cycle to affect the SWD configuration BPDU sending cycle?

Bridge ID:4096:0001-0203-04AA

Bridge ID:32768:0001-0203-04BB



Bridge ID:4096:0001-0203-04CC

Bridge ID:32768:0001-0203-04DD

- A. SWB
- C. SWA
- C. SWC
- D. SWD

**Answer: B**

534.The management of users by NAS devices is based on domains. Each user belongs to a domain. A domain is a group composed of users belonging to the same domain.

- A. True
- B. False

**Answer: A**

535.What elements can NAPT convert?

- A. Only MAC address
- B. IP address + port number
- C. MAC address + port number

D. Only IP address

**Answer: B**

536.Using a traditional landline to make a call is a way of network communication.

A. True

B. False

**Answer: A**

537.The SNMP protocol of the network management system can only view the operating status of the device but cannot issue the configuration.

A. True

B. False

**Answer: B**

538.A device has been configured to complete Telnet configuration. The device login address is 10.1.1.10, the Telnet user name is admin, and the password is Huawei@123.

What is the correct way to log in to the device using telnetlib?

A. telnetlib.Telnet (10.1.1.10, admin, Huawei@123)

B. telnetlib.Telnet (10.1.1.10, 23, admin, Huawei@123)

C. telnetlib.Telnet (10.1.1.10, admin)

D. telnetlib.Telnet (10.1.1.10)

**Answer: D**

539.The role of telnet.read\_very\_eagerc in elnetlib is to read data non-blockingly, and usually needs to be used with the time module.

A. True

B. False

**Answer: A**

540.In order to detect the connectivity status of the CAWAP tunnel, after the CAWAP tunnel is established, which CAWAP packets are used by the AC for detection? (Multiple choice)

A. Keepalive

B. DPD

C. Echo

D. Hello

**Answer: AC**

541.Only the security policy of WPAI-PSK supports the use of TKIP for data encryption.

A. True

B. False

**Answer: B**

542.To provide different network services for different users on the AP, which of the following networks can be configured to achieve?

- A. WAP
- B. VAP
- C. VAC
- D. VT

**Answer: B**

543.Which of the following statements about link aggregation are correct? (Multiple choice)

- A. To connect two devices, it is necessary to ensure that the link aggregation mode on both devices is the same
- B. GE electrical interfaces and GE optical interfaces cannot be added to the same Eth-Trunk interface
- C. Eth-Trunk interfaces cannot be nested
- D. GE interface and FE interface cannot be added to the same Eth-Trunk interface

**Answer: ABD**

544.Which of the following options are related to encapsulation and decapsulation? (Multiple choice)

- A. Shorten the length of the message
- B. The process of encapsulation and decapsulation can complete fault location
- C. Encapsulation and decapsulation are important steps to realize the functions of different protocols
- D. Interoperability between different networks

**Answer: CD**

545.What kind of message is used in OSPF to request the locally missing LSA?

- A. LSACK
- B. LSU
- C. Hello
- D. LSR

**Answer: D**

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

- A. The backbone area number cannot be 2
- B. The area number is from 0.0.0.0-255.255.255.255
- C. All networks should be declared in zone 0
- D. Before configuring the ospf zone, you must configure an IP address for the loopback port of the router

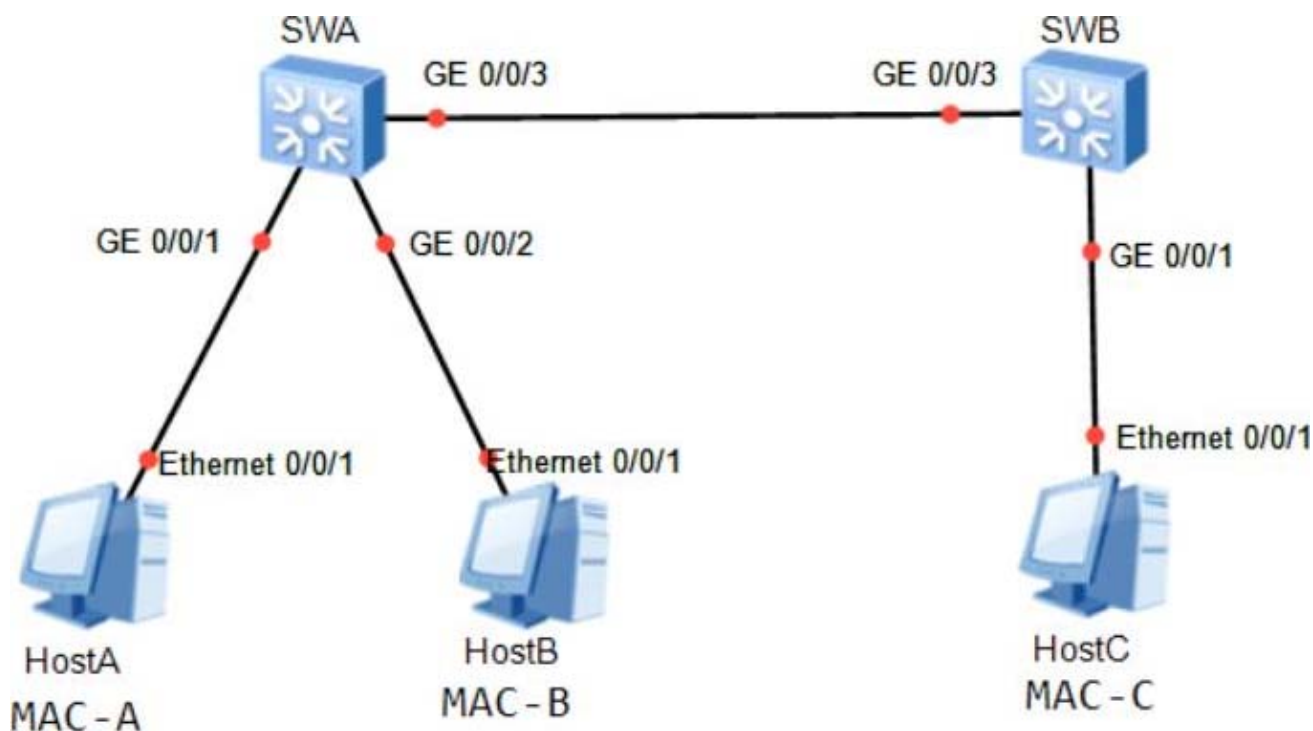
**Answer: AB**

546.When the switch has redundant links, using STP can solve the problem.

- A. True
- B. False

**Answer: A**

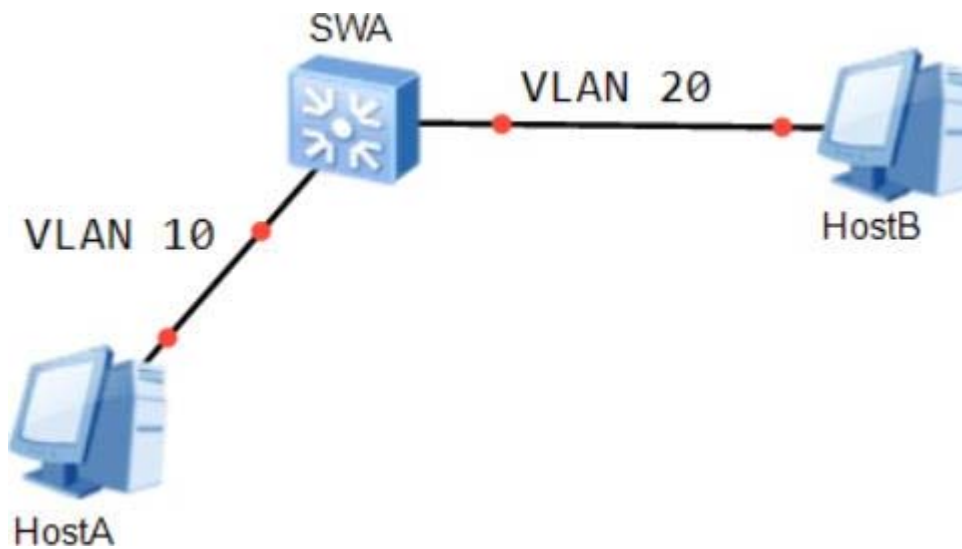
547.All the devices in the picture can communicate normally. Which is the correct correspondence between SWA's MAC address table and port?



- A. MAC-A — G0/0/2
- MAC-B — G0/0/2
- MAC-C — G0/0/3
- B. MAC-A — G0/0/1
- MAC-B — G0/0/2
- MAC-C — G0/0/1
- C. MAC-A — G0/0/1
- MAC-B — G0/0/1
- MAC-C — G0/0/3
- D. MAC-A — G0/0/1
- MAC-B — G0/0/2
- MAC-C — G0/0/3

**Answer: D**

548.As shown in the figure, if host A has the ARP cache table of host B, host A can ping host B successfully.



A. True

B. False

**Answer: B**

550. In the WLAN architecture, FITAP cannot work independently. Unified management by AC is required. How can FIT AP and AC communicate?

A. WAP

B. IPSEC

C. capwap

D. WEP

**Answer: C**

551. What is the command to configure the direct forwarding mode on the AC?

A. Forward-mode Tunnel

B. Forward-capwap

C. Forward-direct

D. direct-Forward

**Answer: D**

552. IEEE802.11ac only supports the 5GHz frequency band.

A. True

B. False

**Answer: A**

553. When AP and AC are in different Layer 3 networks, which method is recommended for AP to discover AC?

A. DHCP

B. AP manually specified

C. Broadcast

D. DNS

**Answer: A**



554.How many bytes are the packets with MPLS labels more than the original IP packets?

- A. 4
- B. 8
- C. 16
- D. 32

**Answer: A**

555.Which of the following interfaces are not open interfaces for Huawei network equipment?

- A. XML
- B. Netconf
- C. Json
- D. Restconf

**Answer: A**

556.Which of the following is the link-local address of IPV6?

- A. FC00::2E0:FCFF:FEEF:FEC
- B. FE80::2E0:FCFF:FEEF:FEC
- C. 2000::2E0:FCFF:FEEF:FEC
- D. FF02::2E0:FCFF:FEEF:FEC

**Answer: B**

557.The controller is the core component of SDN. The controller is connected to the device through the southbound interface. Which of the following belongs to the controller southbound protocol? (Multiple choice)

- A. SNMP
- B. OpenFlow
- C. PCEP
- D. NETCONF

**Answer: ABCD**

558.How many planes does a network device have? (Multiple choice)

- A. Business plane
- B. Management plane
- C. Control plane
- D. Data plane

**Answer: BCD**

559.The output information of a certain device is as follows. Which of the following statements is correct? (Multiple choice)

<Huawei>display version

Huawei versatile Routing Platform Software

VRP(R)software Version 5.130 (AR2200, V200R003C00)

Huawei AR2220 Router uptime is 0 week, 0 day, 0 hour, 1 minute

BSP 0 version information

1. PCB Version: AR01RAK2A.VER.NC
  2. If Supporting PoE: No
  3. Board Type: AR2220
  4. MPU Slot Quantity: 1
  5. LPU Slot Quantity: 6
- MPU(Master): uptime is 0 week,0 day,0 hour,1 minute

MPU Version information:

1. PCB Version: AR01SR02A.VER.NC
  2. MAB Version: 0
  3. Board Type: AR2220
  4. MPU Slot Quantity: 0
  5. LPU Slot Quantity: 6
- A. The VRP operating version of the device is VRP5  
 B. The device has been running for 1 minute  
 C. The standby main control board of the device is operating normally  
 D. The device name is Huawei

**Answer:** ABD

560.Which of the following descriptions about the wireless devices is correct?

- A. FAT AP generally works with wireless controller
- B. The wireless device does not have a wired interface
- C. FIT AP generally completes user access authentication service forwarding independently
- D. The wireless controller AC is generally located at the convergence layer of the entire network, providing high-speed, safe and reliable WLAN services

**Answer:** D

561.The broadcast address is a special address with all the host bits of the network address set to 1, and it can also be used as a host address.

- A. True
- B. False

**Answer:** B

562.As shown in the figure, it is the port status information displayed on a switch running STP. Based on this information, which of the following description is wrong?

| MSTID | Port                  | Role | STP State  | Protection |
|-------|-----------------------|------|------------|------------|
| 0     | GigabitEthernet0/0/1  | DESI | FORWARDING | NONE       |
| 0     | GigabitEthernet0/0/2  | DESI | FORWARDING | NONE       |
| 0     | GigabitEthernet0/0/3  | DESI | FORWARDING | NONE       |
| 0     | GigabitEthernet0/0/21 | DESI | FORWARDING | NONE       |
| 0     | GigabitEthernet0/0/22 | DESI | FORWARDING | NONE       |
| 0     | GigabitEthernet0/0/23 | DESI | 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: B**

563.What is the coverage area of an AP that is identified in WLAN?

- A. BSSID
- B. BSS
- C. SSID
- D. ESS

**Answer: A**

564.Now we need to implement a Python automation script Telnet to the device to view the remote login configuration of the device. Which of the following statements is wrong?

- A. Telnetlib can achieve this function
- B. telnet.close() is used after each command is entered, and its function is to wait for the switch to return a message.
- C. Use telnet.Telnet (host) to connect to the Telnet server,
- D. You can use telnet.write (b "display current-configuration\n") to input the command to view the current configuration of the device.

**Answer: B**

565.If the proto of a certain piece of routing information in the routing table is direct, the routing priority must be 0.

- A. True
- B. False

**Answer: A**

566.What is the length of the Ethernet-II frame containing the Ethernet header?

- A. 40B-1500B
- B. 60B-1560B
- C. 64B-1500B
- D. 64B-1518B

**Answer: D**

567.The host 192.168.1.2 must go through NAT to access the public network address.

- A. True
- B. False

**Answer: A**

568.AP radio port can only be bound to one SSID.

- A. True
- B. False

**Answer: B**

569.What user authentication can be deployed in WLAN? (Multiple choice)

- A. Radius authentication
- B. MAC address authentication
- C. 802.1x authentication
- D. Portal authentication

**Answer:** ABCD

570.What is the command for AC to configure the country code?

- A. province-conde
- B. country-conde
- C. state-conde
- D. nation-conde

**Answer:** B

571.Which WLAN policies support the open link authentication method? (Multiple choice)

- A. WPA2-802.1x
- B. WPA
- C. WPA2-PSK
- D. WEP

**Answer:** ABCD

572.Which of the following conceptual descriptions are correct about NFV architecture? (Multiple choice)

- A. VNFM, virtual network function management.
- B. NFVO, responsible for business orchestration.
- C. MANO is composed of NFVO, VNFM, and VIM
- D. VIM virtual resource management, responsible for the virtualization of infrastructure

**Answer:** ABCD

573.Config mode is the default acl configuration sequence on Huawei devices.

- A. True
- B. False

**Answer:** A

574.The only way for STA to discover the wireless network is the Beacon frame sent by the AP.

- A. True
- B. False

**Answer:** B

575.In order to join the wireless network, Sta needs to obtain wireless network information. What kind of message does the STA use to actively obtain the SSID?

- A. join
- B. Discovery
- C. Beacon
- D. Probe

**Answer: D**

576.Virtual machines are the basis for NFV. Which of the following are correct about the characteristics of virtual machines? (Multiple choice)

- A. Partition, you can run multiple virtual machines on a single physical network at the same time
- B. Isolation, virtual machines on the same physical server are isolated from each other
- C. Encapsulation, virtual machines are shared operating space, encapsulation is realized through namespace
- D. Hardware independence, virtual machine and hardware decoupling support virtual machine migration between servers

**Answer: ABCD**

577.The IPv4 address of the host is 200.200.200.200/30, which of the following IPv4 addresses does not need to be forwarded through the router for the communication between the host and the host?

- A. 200.200.200.203
- B. 200.200.200.202
- C. 200.200.200.1
- D. 200.200.200.200

**Answer: B**

578.A display path can be suggested through SR. The nodes in the network only need to maintain segment routing information to correspond to the real-time and rapid development of services. Which of the following are the characteristics of segment routing? (Multiple choice)

- A. By extending existing protocols (such as IGP), the existing network can be better and smoothly migrated
- B. SR uses IP forwarding, no need to maintain another label forwarding table
- C. Use source routing technology to provide the ability to quickly interact with the network and upper-layer applications
- D. It supports both the controller mode and the branch control mode of the repeater to provide a balance between centralized control and distributed control

**Answer: ACD**

579.Which of the following statement is correct about the SNMP protocol?

- A. SNMP protocol uses multicast to send management messages
- B. SNMP uses IGMP as the network layer protocol
- C. SNMP uses UDP as the transport layer protocol
- D. SNMP protocol only supports sending management messages on the Ethernet link

**Answer: C**

580.Which of the following statements about Python is wrong?

- A. Python has a wealth of third-party libraries
- B. Python can be used in many fields such as automated operation and maintenance scripts, artificial intelligence, data science, etc.
- C. Python is a fully open source high-level programming language

D. Python has a clear grammatical structure, simple and easy to learn while running efficiently

**Answer: D**

581. When using FTP protocol to upgrade the router, which transmission mode should choose?

- A. Byte mode
- B. Text mode
- C. Language mode
- D. Binary mode

**Answer: D**

582. The software version will be downloaded on the AC during the FIT online process.

- A. True
- B. False

**Answer: B**

583. Which of the following statements about prefix segment is wrong?

- A. prefix segment is used to identify the prefix of a destination address in the network (prefix)
- B. The prefix segment needs to be configured manually
- C. The prefix segment spreads to other network elements through IGP, which is globally visible and effective
- D. The prefix segment can be automatically allocated by IGP

**Answer: D**

584. ACL on AR G3 series routers supports two matching orders, configuration order and automatic order.

- A. True
- B. False

**Answer: A**

585. Which of the following versions of SNMP support encryption features?

- A. SNMP v3
- B. SNMP 2c
- C. SNMP 2
- D. SNMP 1

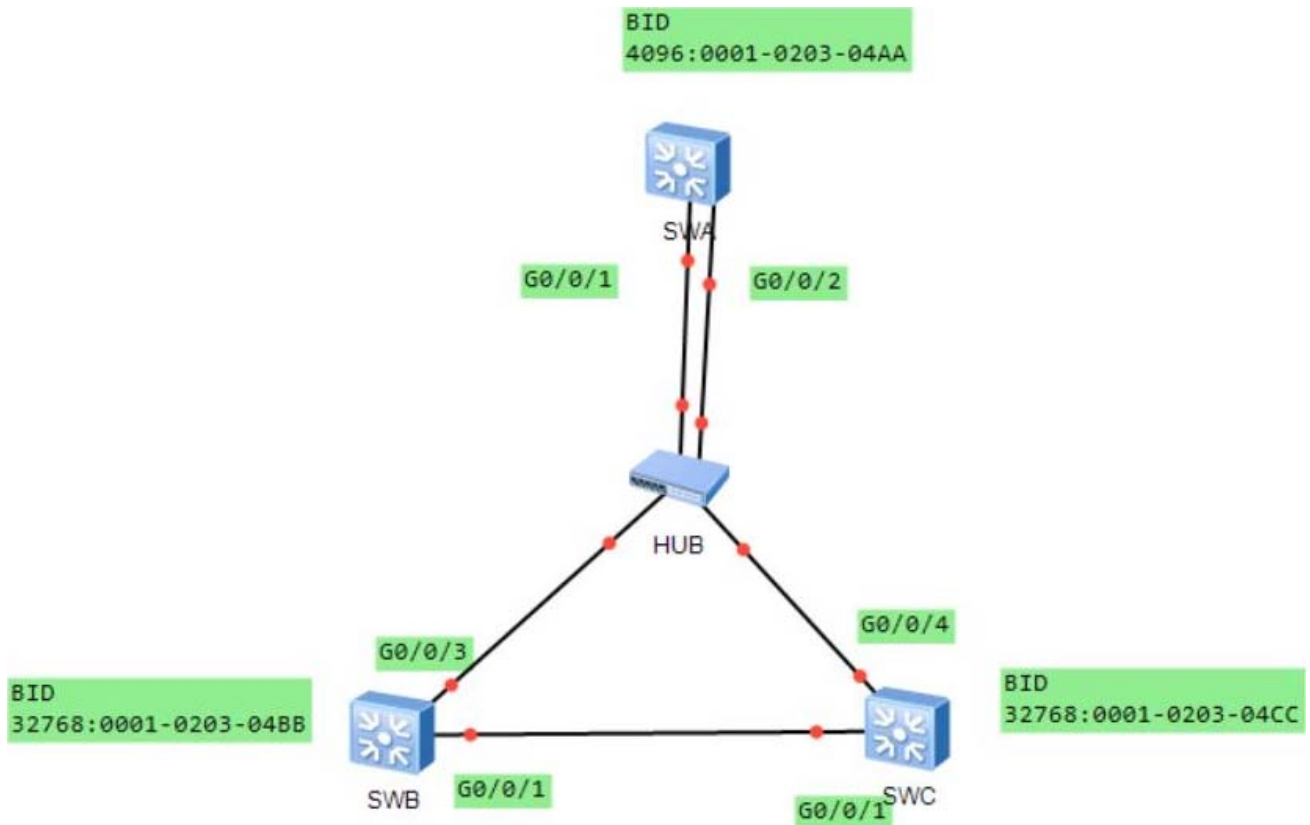
**Answer: A**

586. Which of the following attributes cannot be used as a parameter to measure Cost?

- A. Time delay
- B. sysname
- C. Hop count
- D. Bandwidth

**Answer: B**

587. Three Layer 2 switches are interconnected with one HUB. The switches are all enabled with STP. The bridge ID refers to the figure below. Other configurations are default. Which one is wrong?



- A. SWA is the root bridge in the network
- B. The two ports on SWA are designated ports and are in the forwarding state
- C. G0/0/2 of SWA is blocked
- D. G0/0/1 of SWC is alternative and is in blocking state

**Answer: B**

588.As shown in the figure, it can be judged that 00e0-fc99-9999 is the specific host and MAC address learned by the switch through ARP, and the host has changed its IP address three times.

|                |                |             |
|----------------|----------------|-------------|
| 10.137.217.210 | 00e0-fc01-0203 | E1/0/0      |
| 10.2.2.1       | 00e0-fc99-9999 | Eth-Trunk 1 |
| 192.168.20.1   | 00e0-fc99-9999 | vlan100     |
| 10.0.0.1       | 00e0-fc99-9999 | vlan200     |

- A. True
- B. False

**Answer: B**

589.What are the necessary conditions for configuring static routing? (Multiple choice)

- A. Outbound interface
- B. Outbound interface MAC address
- C. Next hop
- D. Destination IP

**Answer: ACD**

590.Which of the following is not included in the MAC address table?

- A. Port number
- B. Vlan
- C. IP address
- D. MAC address

**Answer: C**