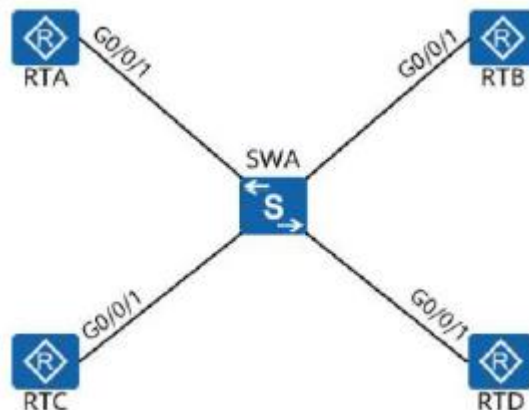


HCIA DATACOMM QUESTION AND ANSWERS

1. SDN requires the control and forwarding planes to *be* separated.
True
Fake
2. When forwarding a data packet, a router needs to change the destination IP address of the packet.
True
False
3. Only one SSID can be bound to each radio of an AP.
True
False
4. A DHCP Offer packet can carry only one DNS server address
True
False
5. A router in the backbone area has complete LSEDBs of routers in other areas.
True
False
6. The router ID of the OSPF process takes effect immediately after being changed.
True
False
7. CAPNAP control tunnels and data tunnels use the same port number.
True
False
8. Refer to the graphic. OSPF is used on four routers that are in the same area and on the same network segment, In this scenario, OSPF selects one DR and multiple BDRs to ensure backup.



True
False

9. The working mode of an AP cannot be changed.
True
False
10. The IPv6 address 2001:ABEF:224EFFE2:BCC0:CDOO:DDBE:8D58 cannot be abbreviated.

True

False

11. The MPLS label header is encapsulated between the data link layer header and the network layer header. e True

True

False

12. A NAS performs domain-based user management. A domain is a group of users and each user belongs to a domain.

True

False

13. STAB can discover a WLAN only when APs send Beacon frames.

True

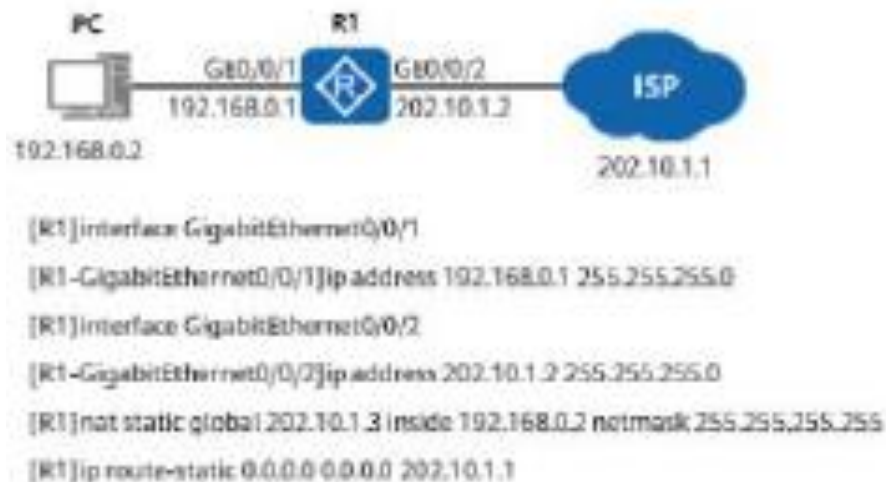
False

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

True

False

15. Refer to the graphic, the static NAT command is executed on R1. When a PC connected to R1 accesses the Internet, the destination address in the packets does not change.



True

False

16. The ARP protocol can resolve the MAC address of a destination device from the corresponding destination IP address, mapping the MAC address and IP address.

True

False

17. When the host accesses web service of the server, the value of the "Protocol" field at the network layer is 6.

True

False

18. For STP, the default root path cost of the root bridge is a

True

False

19. If the value of the "Type/Length" field of an Ethernet data frame is 0x0800, the length range of the upper-layer packet header carried by the data frame is from 20B to 60B.

True

False

20. On the VRP CLI, files cannot be permanently deleted using the delete or delete /unreserved command. To permanently delete them, you need to delete the files in the recycle bin.

True

False

21. ::1/128 is an IPv6 loopback address

True

False

22. The IP addresses of VLANIF interfaces on the same switch must be different.

True

False

23. The router that runs OSPF first enters the Full state and then synchronizes the LSDB.

True

False

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

True
False

25. A router in the backbone area has complete LSDBs of routers in other areas.

True
False

26. The router ID of the OSPF process takes effect immediately after being changed.

True
False

27. When redundant links exist on a switching network, STP can be used to eliminate loops

True
False

28. If the value of the "Type/Length" field of an Ethernet data frame is 0x0800, the length range of the upper-layer packet header carried by the data frame is from 20B to 60B.

True
False

29. Refer to the graphic, after the ping 10.1.1.2 command is executed on R1, LSW1 receives a tagged data frame from VLAN 10 on LSW2.



True
False

30. NAPT differentiates IP addresses of different users based on protocol ID in TCP, UDP, or IP packets.

True

False

31. When the host accesses web service of the server, the value of the "Protocol" field at the network layer is 6.

True

False

32. In RSTP mode, interfaces in the Discarding state discard received data frames but maintain the MAC address table based on received data frames.

True

False

33. For multiple paths to the same destination network, the router needs to compare the preference values of the paths. If the preference values are the same, the router selects the paths based on the cost value. When forwarding a data packet, a router needs to change the destination IP address of the packet.

True

False

34. An AC transmits management packets to Fit APs through CAPWAP control tunnels.

True

False

35. If a network's address is 192.168.1.0, the broadcast address of the network is 192.168.1.255.

True

False

36. If a network's address is 192.168.1.0, the broadcast address of the network is 192.168.1.255.

True

False

37. The authentication, authorization and accounting schemes and HWTACACS or RADIUS server templates created on AR routers take effect only after being applied to a domain.

True

False

38. The working mode of an AP cannot be changed.

True

False

39. The IP addresses of VLANIF interfaces on the same switch must be different.

True

False

40. By the time two OSPF-enabled routers have established a 2-way neighbor relationship, LSDB synchronization has been completed.

True

False

41. By the time two OSPF-enabled routers have established a 2-way neighbor relationship, LSDB synchronization has been completed.

True

False

42. A gateway must be configured for communication between a host and other hosts.

True

False

43. Making a call on a landline telephone is a type of network communication.

True

False

44. More than two switches can be stacked into one logical device.

True

False

45. `Telnet.read very eager()` in `telnetlib` is used to read all data that can be read without blocking in I/O (eager). `telnet.read very eager()` typically needs to be used together with the `time` module.

True

False

46. After a switch restarts, static MAC address entries saved on the switch remain in the MAC address table.

True

False

47. The router ID of the OSPF-enabled router must be the same as the IP address of an interface on the router.

True

False

48. Only CHAP authentication can be used for PPPoE sessions.

True

False

49. Fat APs can provide wireless user access, wireless user authentication, and service data forwarding without an AC.

True

False

50. Only the WPA2-PSK security policy supports TKIP data encryption.

True

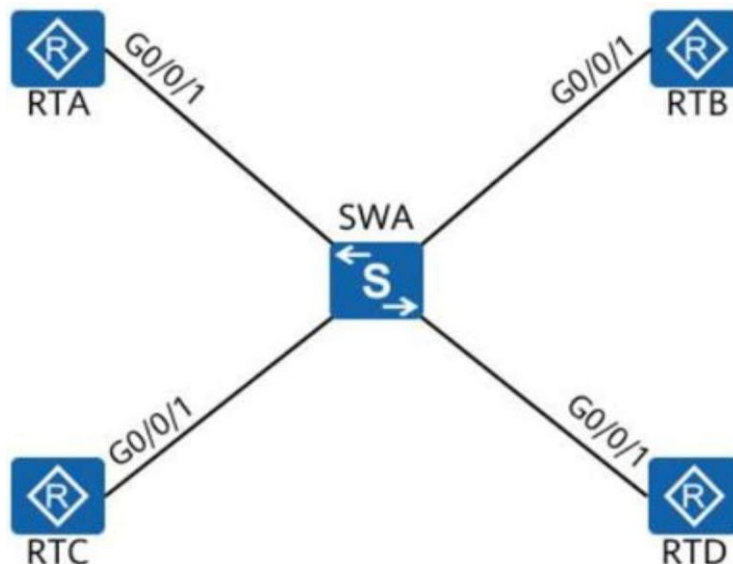
False

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

True

False

52. Refer to the graphic. OSPF is used on four routers that are in the same area and on the same network segment. In this scenario, OSPF selects one DR and multiple BDRs to ensure backup.



True

False

53. The basic header of IPv6 packets has a fixed length.

True

False

54. When forwarding a data packet, a router needs to change the destination IP address of the packet.

True

False

55. IEEE 802.11 ac supports only the 5 GHz frequency band.

True

False

56. On Huawei switches, you can run the VLAN batch command to create multiple VLANs in batches.

True

False

57. A trunk interface allows frames from multiple VLANs including VLAN 4096.

True

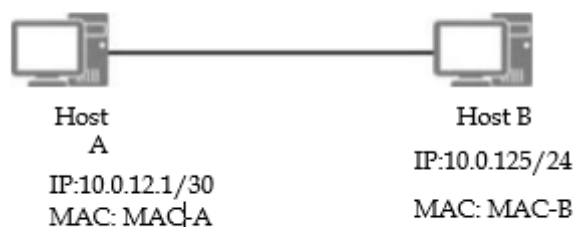
False

58. None of the 14 available channels on the 2.4 GHz frequency band overlap.

True

False

59. As shown in the figure, host A and host B cannot communicate with each other.



True

False

60. Wi-Fi 6 is also known as the IEEE 802.11 ax standard.

True

False

61. When a host uses the stateless address autoconfiguration solution to obtain an IPv6 address, the host cannot obtain the DNS server address.

True

False

62. If AAA authentication is used on Huawei devices and the remote server does not respond, the authentication can be performed on network devices.

True

False

63. With SNMP, an NMS can only display the device running status but cannot deliver configurations.

True

False

64. Only CHAP authentication can be used for PPPoE sessions.

True

False

65. A gateway must be configured for communication between a host and other hosts.

True

False

66. An Eth-Trunk interface can be used only as a Layer 2 interface

True

False

67. CAPWAP control tunnels and data tunnels use the same port number.

True

False

68. On Huawei switches, you can run the VIAN batch command to create multiple VLANs in batches.

True

False

69. The tracert diagnostic tool of Huawei routers is used to trace data forwarding paths.

True

False

70. The IP addresses of VLANIF interfaces on the same switch must be different.

True

False

71. For the Versatile Routing Platform (VRP), the login timeout period can be set only on a VTY interface.

True

False

72. The priority of static routes cannot be manually specified.

True

False

73. For STP, the default root path cost of the root bridge is 0.

True

False

HCIA SATACOM SINGLE CHOICE QUESTIONS

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

- ☒ A. 2001::12:1
- ☐ B. FE80::2E0:FCFF:FEEF:FEC
- C. FF02::1
- D. 0::2 0:FCF:FEF: FEC

2. When SNMPv1 is used to manage network devices, which of the following commands is used by an MMS to configure network devices?

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

3. A configured internal host of a private network wishes to access the internet. What must be configured on the enterprise network egress router in order to achieve this?

- A. **Easy IP.**
- B. DHCP.
- C. BGP.
- D. Default route.

4. The last option field (option) of an IPv4 packet is a length-variable and optional field. What is the maximum length of this field?

- a. 40B**
- B. 60B
- C. 20B

D. 10B

5. A network administrator wishes to assign an IP address to a router interface G0/0/0. Which of the following IP addresses can be assigned?
- A. 192.168.10.112/30
 - B. 237.6.1.2/24
 - C. **145.4. 2.55/26**
 - D. 127.3.1.4/28
6. Network Address and Port Translation (NAPT) allows multiple private IP addresses to be mapped to the same public IP address through different port numbers. Which of the following statements about port numbers in NAPT is true?
- A. The mappings between port numbers and private IP addresses must be manually configured.
 - B. Only the port number range needs to be configured.
 - C. **No port number needs to be configured.**
 - D. An ACL is required to allocate port numbers.

7. What is the length range of an Ethernet II frame that contains an Ethernet header?

A. 46—1500 bytes

B. 64—1518 bytes

C. 64—1500 bytes

D. 60—1560 bytes

8. As specified by the RSTP protocol, when a root port fails, which type of port will function as a new root port and enters the forwarding state without any delay?
- A. Forwarding Port.
 - B. **Alternate Port.**
 - C. Backup Port.
 - D. Edge Port.
9. To join a wireless network, STAs need to obtain wireless network information first. Which of the following packets is used by STAs to proactively obtain SSID information?
- A. **Probe**
 - B. Beacon
 - C. Join
 - D. Discovery
10. In standard STP mode, which of the following ports on non-root switches forward the BPDUs with TC bits set generated by the root switch?
- A. Root port.
 - B. Backup port.
 - C. **Designated port.**

D. Alternate port.

11. What is the total length of the interface ID in each link-local unicast address?

- A. 32 bits
- B. 48 bits
- C. **64 bits**
- D. 96 bits

12. A company applies for a class C IP address for subnetting, it has eight branches. The largest branch has a subnet and should support at least 14 hosts. What would be an appropriate subnet mask?

- A. 255.255.255.0
- B. 255.255.255.128
- C. 255.255.255.192
- D. **255.255.255.224**

13. In which of the following ranges can the VLAN IDs be used by users?

- A. 0 to 4095
- B. 1 to 4096
- C. 0 to 4096
- D. 1 to 4094**

15. Which command can be used to check the PPPoE client session status?

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

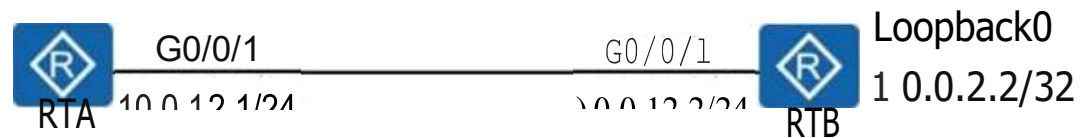
16. When both ends running PPP protocol detect that the physical link is active, the link state will transit from dead to establish. Which of the following protocols is used to negotiate the link parameters during this phase?

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

17. Which of the following fields is not included in the OSPF Hello packet?

- A. Hello Interval
- B. Neighbor
- C. Network Mask
- D. sysname**

18. To enable Router A to communicate with loopback 0 on Router B on the network shown in the figure, which of the following commands needs to be run on Router A?



A. **ip route static 10.0.2.2 255.255.255.255
10.0.12.2**

B. ip route-static 10.0.2.2 255.255.255.255 1
0.0.12.1

C. ip route-static 10.0.2.2 32 Gigabit Ethernet 0/0/0

D. ip route-static 10.0.2.2 0 GigabitEthernet 0/0/0

19. As shown in the following figure, a router has two routing entries in its routing table. If the router needs to forward packets destined for 9.1.4.5, which route will be selected and why?

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. The first route is selected as the optimal route because OSPF has a higher preference.

B. The second route is selected as the optimal route because the RIP route has a smaller cost.

C. The second route is selected as the optimal route because the rate of Ethernet0 is faster than Serial0.

D. The second route is selected as the optimal route because this route is more accurate than the first one for the destination address 9.1.4.5.

20. The administrator performs the configuration shown in the figure on a router, and a host is connected to G1/0/0 of the router. Which of the following statements is true about the IP address obtained by the host 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 segment.**
- B. The IP address obtained by the host belongs to the 10.20.20.0/24 network segment.
- C. The host cannot obtain an IP address.

D. The IP address obtained by the host may belong to the 10.10.10.0/24 or 10.20.20.0/24 network segment.

21. which of the following statements about VLANIF interfaces is/are correct?

- A. A VLANIF interface does not have a MAC address.
- B. VLAN I F interfaces do not need to learn MAC addresses.
- C. A VLANIF interface is a Layer 3 interface.**
- D. Different VLANIF interfaces can use the same IP address.

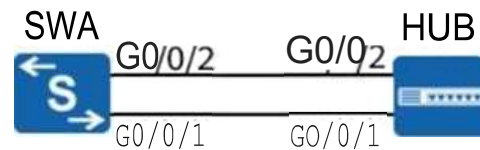
22. The administrator wishes to change name of the router. Under which view should the administrator be in order to achieve this?

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

23. The IPv6 address architecture does not include which of the following address types?

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

24. Refer to the graphic. The switch is operating using STP. All default parameters have been maintained. Which port will be assigned a designated port role?



- A. **G0/0/1 of switch A.**
 - B. G0/0/2 of switch A.
 - C. E0/0/1 of the hub.
 - D. E0/0/2 of the hub.
25. Which of the following methods is not supported by the Versatile Routing Platform (VRP) to configure a router?
- A. Configure the router through FTP.**
 - B. Configure the router through the console port.
 - C. Configure the router through Telnet.
 - D. Configure the router through the mini USB port.

26. A company has 50 private IP addresses. The administrator uses NAT to connect the company network to the public network. However, the company has only one public IP address that is not fixed. Which of the following NAT modes meets the requirement?

A. Static NAT

B. Basic NAT

C. **Easy IP**

D. NAT

27. When a network engineer enters a command, the following information is displayed:

Error. Unrecognized command found at '^' position. Which of the following statements is true about such information?

A. **No keyword is found.**

B. The parameter type is incorrect.

C. The entered command is incomplete.

D. The entered parameter is not specified.

28. What is the number range of a Layer 2 ACL?

A. 2000-2999

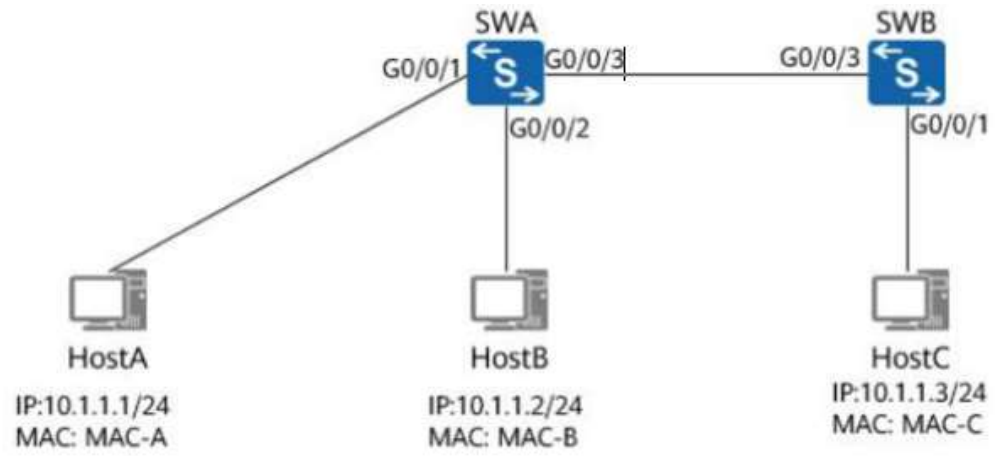
B. 3000-
3999

C. **4000-
4999**

D. 6000-6031

29. Which of the following authentication modes does/do not require a user name and a password?
- A. authentication-mode hwtacacs
 - B. authentication-mode local
 - C. **authentication-mode none**
 - D. authorization-mode hwtacacs
30. Which of the following mask lengths is recommended for device interconnection IP addresses during campus network planning?
- A. **30**
 - B. 24
 - C. 32
 - D. 16
31. which of the following statements about routers is false?
- A. A router works at the network layer.
 - B. **A router cannot isolate broadcast domains.**
 - C. A router can forward IP packets.
 - D. A router can function as a gateway.

31. The network administrator creates VLAN 10 on the Layer 3 switch and configures an IP address for the virtual interface of VLAN10. When the display ip interface brief command is run to view the interface status, the command output indicates that VLANIF 10 is in Down state. Which of the following operations needs to be performed to restore VLANIF 10?
- A. Run the undo shutdown command on VLANIF 10.
 - 8. Add any physical interface to VLAN 10.
 - C. **Add a physical interface in Up state to VLAN 10.**
 - D. Add a trunk interface in Up state to VLAN 10.
32. Assuming that all hosts in the following figure can communicate with each other, which of the following shows the correct mappings between MAC addresses and interfaces in the MAC address table of SWA?



A. MAC-A G0/0/1

MAC-B G0/0/2

MAC-C G0/0/3

B. MAC-A G0/0/1

MAC-B G0/0/1

MAC-C G0/0/3

C. MAC-A G0/0/2

MAC-B G0/0/2

MAC-C G0/0/3

D. MAC-A G0/0/1

MAC-B G0/0/2

MAC-C G0/0/1

Answer: A

33. Assume that the largest number of rules in an ACL is 12. If no number is specified when a new rule is configured, what is the number allocated by the system to the new rule by default?

A. 13

B 14

C. 15

D.6

34. . ip route-static 10.0.1 2.0 255.255.255.0
192.168.1.1

Which statement is true regarding this command?

A. The configuration represents a static route to the 192.168.1.1 network.

B. The configuration represents a static route to the 10.0.12.0 network.

C. The preference value of this configured route is 100.

D. If the router has learned the same destination network via a dynamic routing protocol, the static route will always take precedence.

35. Refer to the following configuration of GigabitEthernet0/0/1 on the switch. For which VLAN does the switch forward untagged data frames?

```
#  
interface GigabitEthernet0/0/1  
port link-type trunk  
port trunk pvid vlan 10  
port trunk allow-pass vlan 10 20 30 40  
#
```

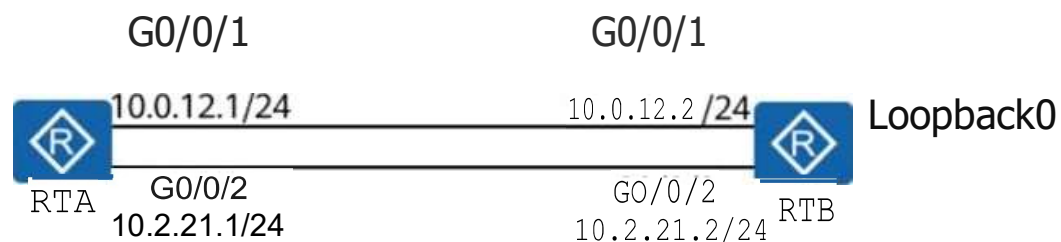
A. 10

B. 20

C. 30

D. 40

36. Which of the following statements regarding static routing and dynamic routing is incorrect?
- A. The static routing can be easily configured and managed on the enterprise network.
 - B. The use of dynamic routing is more convenient for the administrator to manage the network following network convergence.
 - C. The static routing can automatically recover when a link failure is encountered.**
 - D. Dynamic routing will use more resources than static routes.
37. Refer to the network shown in the following figure. The administrator requires that RTA use static routes to send data packets to Loopback0 of RTB through G0/0/1 and use G0/0/2 as a backup. Which of the following configurations on RTA meet this requirement?



10.0.2.2/32

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 1 0.0.21.2 preference 70

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 40

37. Which of the following statements about an Eth- Trunk in LACP mode is true?

- ☐ A. All active interfaces participate in data forwarding and load balance traffic.
- ☐ B. A maximum of four active interfaces are supported.

C. Devices at both ends exchange LACPDUs.

- ☐ D. The number of active interfaces cannot be set.

38. Which of the following fields in an IPv6 header is similar to the TTL field in an IPv4 header?

- ☐ A. Version
- ☐ B. Traffic Class
- ☐ C. Next Header

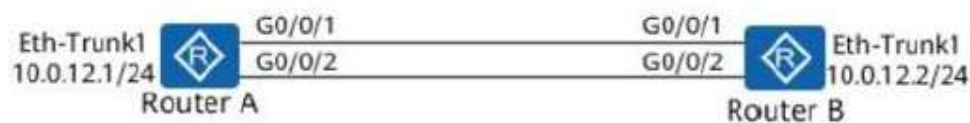
D. Hop Limit

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

- ☐ A. 20B
- ☐ B. 32B
- ☐ C. 60B

D. 64B

41. On the network shown in the figure, router A adopts link aggregation in manual load balancing mode, and G0/0/1 and G0/0/2 are added to link aggregation group (LAG) 1. Which of the following statements is false about Eth-Trunk 1 on router A?



- A. If only G0/0/1 on router B is disabled, Eth-Trunk 1 is Up.
- B. If only G0/0/2 on router B is disabled, Eth-Trunk 1 is Up.
- C. If both G0/0/1 and G0/0/2 on router B are disabled, Eth-Trunk 1 is Up.
- D. If both G0/0/1 and G0/0/2 on router B are disabled, Eth-Trunk 1 is Down.

41. When a host moves frequently, which of the following VLAN assignment modes is the most appropriate?

- A. Port-based VLAN assignment
- B. IP subnet-based VLAN assignment
- C. Policy-based VLAN assignment
- D. **MAC address - based VLAN assignment**

42. Which of the following is used to distinguish WLANs?

- A. AP name
- ☒ B. SSID
- C. VAP
- D. 855 D

43. Which of the following protocols can be used to prevent Layer 2 loops on a campus network?

- a. **RSTP**
- B. OSPF
- C. NAT
- D. SNMP

44. Which of the following is an IP address with a 12-bit mask?

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

45. Which of the following statements is true about the Forward Delay timer of STP?

- A. **Improve the STP convergence speed.**
- ☐ B. Reduce the interval for sending BPDU s.

- C. Prevent temporary loops.
- D. Delay is required when a port transitions between Blocking and Disabled.
- E. Improve the configuration BPDU ItfRtme, ensuring that the configuration BPDUs can be forwarded to more switches.

46. Which of the following statements about the adjacency segment is false?

- ☐ A. An adjacency segment identifies an adjacency of a node.
- ☐ B. Adjacency segments are flooded to other devices through an IGP. After the flooding, the adjacency segments are visible globally but effective locally.
- ☐ C. An adjacency segment is identified by the adjacency SID.
- ☒ D. **Adjacency segments must be manually configured.**

47. A switch needs to forward a frame with the destination MAC address 5489-98ec-f011. Refer to the display mac-address command output shown in the figure. Which of the following statements is true?

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

MAC Address	VLAN/VSI	Learned-From	Type
5489-98ec-f018	1/-	GE0/0/13	dynamic

Total items displayed = 1

- ☐ A. The switch needs to send a request to discover the device whose MAC address is 5489-98ec-f011.
- ☐ B. The switch sends an ICMP unreachable message to the source device.
- ☒ C. **The switch floods the frame on all interfaces except the one on which it received the frame.**
- ☐ D. The switch does not find a matching entry in the MAC address table, so it discards the frame.

48. On the network shown in the figure, which router is elected as the BDR?

Router A

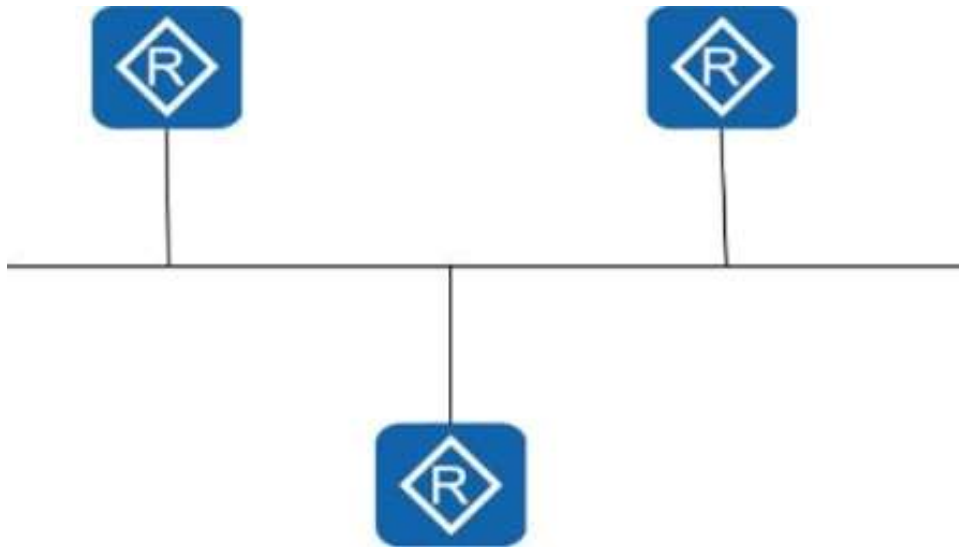
Router ID 10.0.1.1

Priority=255

Router B

Router ID 10.0.2.2

Priority=0



Router C

Router ID 10.0.3.3

Priority=0

☐ A. Router A

☐ B. Router B

50. Which of the following stages is/are not included in PPPoE session establishment and termination?

- ☐ A. Discovery stage
- ☐ B. Session stage
- ☐ C. Session termination stage

D. Data forwarding stage

51. Which one of the following methods cannot be used by a Fit AP to obtain the IP address of an AC for going online?

- ☐ A. Broadcast
- ☐ B. DHCP Option
- ☐ C. Statically specified on the AP

D. Multicast

52. Which of the following statements regarding the "port trunk allow-pass vlan all" command is true?

a. The specified port allows all VLAN IDs to pass through.

B. The peer port connected to this port must have the same port trunk allow-pass vlan all command configured.

C. The peer device connected to this port can dynamically determine which VLAN IDs are allowed to pass through.

D. If the port default vlan 3 command is run on the connected remote device, VLAN 3 will be blocked between

the two devices.

53. Which of the following information is displayed when an entered command is incomplete on the Versatile Routing Platform (VRP)?

a. Error: Incomplete command found at ' ^ ' position

b. B. Error: Too many parameters found at ' ^ ' position

c. C. Error: Ambiguous command found at ^ ' position

d. D. Error: Wrong parameter found at ' ^ ' position

54. Which of the following does not correctly describe Python?

☐ A. Python is a fully open source high-level programming language.

☐ B. Python has rich third- party libraries.

☐ C. Python can be used in many fields, such as automatic O&M scripting, artificial intelligence, and data science.

D. Python has a clear syntax, is easy to learn, and efficient at runtime.

55. Which of the following OSPF states can be used to indicate that an adjacency relationship has been established?

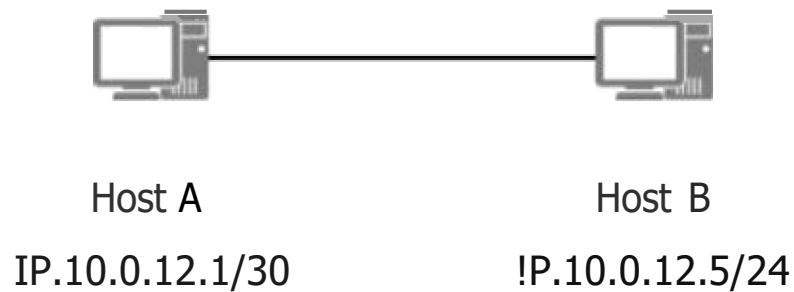
☐ A. Down

B. 2—way

C. Full

☐ D. Attempt

56. Which of the following IPv4 addresses can be directly used by a host to access the Internet?
- ☐ A. 192.168.1.1/24
 - ☐ B. 10.255.255.254/24
 - ☐ C. 172.46.255.254/24
 - ☒ D. **172.32.1.1/24**
57. Which of the following packets is used by OSPF to discover and maintain neighbor relationships?
- ☒ a. **HELLO**
 - ☐ B. LSR
 - ☐ C. LSU
 - ☐ D. DD
58. According to the figure, which of the following statements is true?



MAC: MAC-A

MAC: MAC- B

a. Host A and host B cannot obtain the MAC address of each other.

- ☐ B. Host A can successfully ping host B.
- ☐ C. The broadcast addresses of host A and host B are the same.
- ☐ D. The following ARP cache entry exists on host A:
10.0.12.5 MAC-B

59. Which of the following SNMP packets is/are sent by the agent on the managed device to the NMS?

- ☐ A. Get— Request
- ☐ B. Get-Next— Request
- ☐ C. Set-Request

D. Response

60. How many types of OSPF packets are available?

- A. 2**
- B. 3

C 4

D. 5

61. If a routing table contains multiple routes to the same destination network, what are these routes called?

A. **Equal—cost routes**

B. Sub-optimal routes

C. Multipath routes

O D. Default routes

62. When an Ethernet frame is received by an interface on a Layer 2 Ethernet switch, which field is used to generate an entry in the MAC address table?

a. Source MAC address

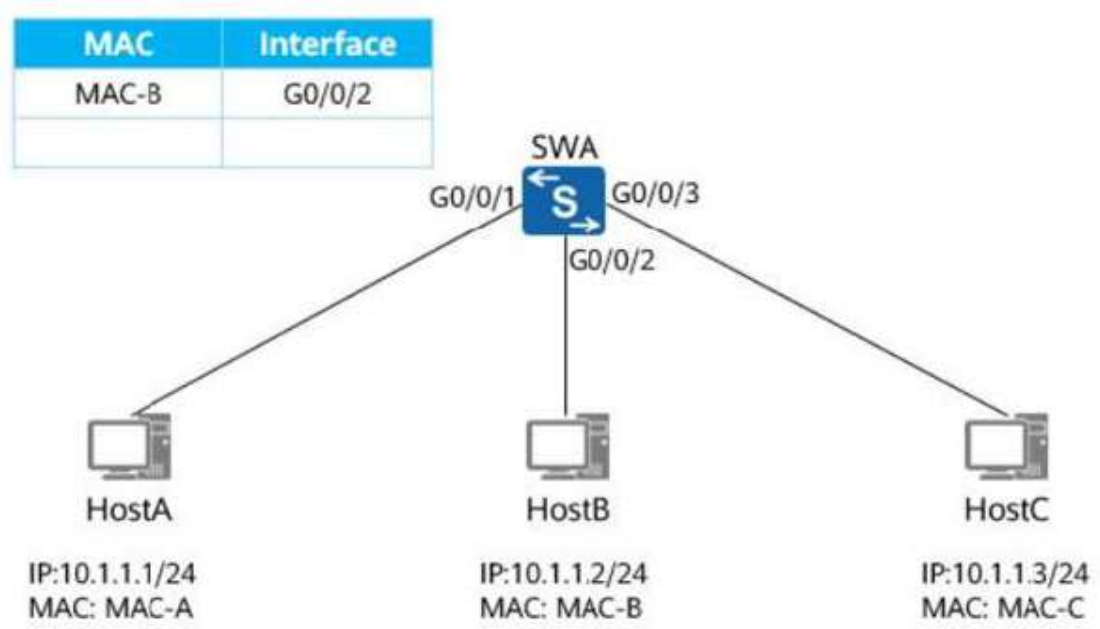
- ☐ B. Destination MAC address
- ☐ C. Source IP address
- ☐ D. Destination IP address

63. An administrator wishes to configure a floating static route. In order to successfully achieve this, which operation should be performed?

a. The administrator is required to configure a different preference values for the primary static route and floating static route.

- ☐ B. The administrator is only required to configure two static routes.
- ☐ C. The administrator is required to configure different route tags for the primary static route and floating static route.
- ☐ D. The administrator is required to configure a different costs metric for the primary static route and floating static route.

64. As shown in the figure, assume that the MAC address table of SWA is as follows. Host A sends a data frame whose destination MAC address is MAC-B to SWA. Which of the following statements is true?



A. SWA discards the data frame.

b.SWA forwards the data frame only through G0/0/2.

C. SWA forwards the data frame only through G0/0/3.

67. On a WLAN, Fit APs cannot provide wireless services independently and must be managed by an AC in a unified manner. Which of the following protocols is used for communication between an AC and Fit APs?

☐ A. WAP

☒ B. **CAPWAP**

☐ C. IPsec

☐ D. WEP

68. Which of the following IPv4 addresses cannot be used by a host to access the Internet without NAT?

☐ A. 100.1.1.1

☐ B. 200.1.1.1

☒ C. **10.1.1.1**

☐ D. 50.1.1.1

69. On the network shown in the figure, G0/0/0 and G0/0/1 of RTA connect to two different network segments,

and RTA is the gateway between the two networks. Given this, the MAC address from which of the following needs to be obtained using an ARP Request message before HostA sends data to HostC?

A. Host C

B. G0/0/0 of RTA

C. G0/0/1 of RTA

D. SWA

70. Which of the following OSPF states can be used to indicate that an adjacency relationship has been established?

☐ A. Down ☐ B. 2—way ☒ C. Full ☐ D. Attempt

71. Which of the following statements about the output on the router RI shown in the figure is false?

```
<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 physical link of Ethernet0/0/0 is working normally.
- B. The IP address of Ethernet0/0/0 is 10.0.12.1/24.
- C. The MTU of Ethernet0/0/0 is 1480.
- D. The broadcast address of Ethernet0/0/0 is 10.0.12.255.

Answer: C

72. Which of the following interface link types is usually used to connect switches to hosts?

- A. **Access**
- B. Trunk
- C. Hybrid
- D. Eth-Trunk

74. Which type of OSPF packets are sent by neighbors to exchange LSAs?

- ☐ A. LSA
- ☐ B. LSR

C. LSU

0 D. LSAck

75. A switch receives a unicast data frame with a VLAN tag, but cannot find the destination MAC address of the data frame in its MAC address table. In this case, which action will the switch take?

☐ A. The switch broadcasts the data frame on all interfaces.

☒ **B. The switch broadcasts the data frame on all interfaces (except that on which it was received) in the VLAN to which the data frame belongs.**

☐ C. The switch broadcasts the data frame on all access interfaces. ☐

☐ D. The switch discards the data frame.

76. Which of the following information is displayed when an entered command is incomplete on the Versatile Routing Platform (VRP)?

☒ **A. Error:Incomplete command found at '^' position**

☐ B. Error.Too many parameters found at '^' position

☐ C. Error:Ambiguous command found at '^' position

☐ D. Error: Wrong parameter found at '^' position

77. Which of the following descriptions regarding the TTL field of the IP packet is correct?

☐ A. The TTL defines how many packets the source can send.

☐ B. The TTL defines the duration during which the source can send packets.

C. The TTL value will decrement by 1 each time the packet is routed.

☐ D. The TTL value will increment by 1 each time the packet is routed.

78. How many TCP connections will be established when FTP is used to transfer files?

A. 1

☒ B. 2

C. 3

D. 4

79. <huawei> system-view

[Huawei] command-privilege level 3 view user save

Refer to the command output. What is the result of the shown command?

☐ A. The command adjusts the save command of a user to privilege level 3.

☒ **B. The command adjusts the save command in the user view to privilege level 3.**

☐ C. The command adjusts the user view command privilege level to 3, and saves the configuration.

☐ D. The command adjusts the privilege level of a user to 3, and saves the configuration.

80. Refer to the following configuration of an interface on a switch. What is the PVID of the interface?

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

A. 1

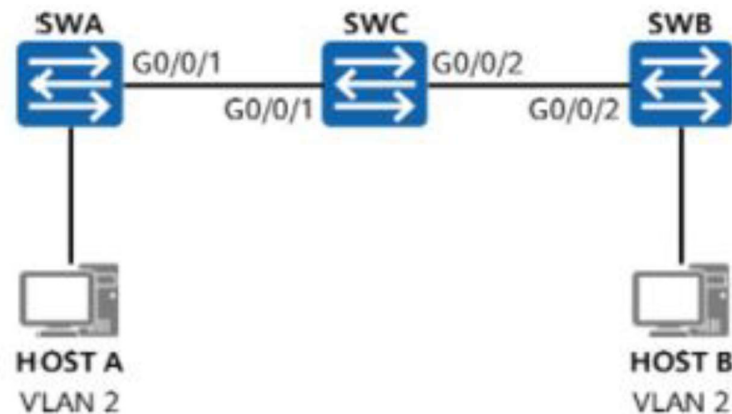
B. 2

C. 4

D. 100

81. The LACP priority is shown in the figure. Switch A and switch B adopt link aggregation in LACP mode, all interfaces are added to the link aggregation group (LAG), and the maximum number of active ports is set to 3. Which port of switch A is not an active port?

82. On the network shown in the following figure, VLAN 2 is created on SWA and SWB, and interfaces on the two switches connected to hosts are configured as access interfaces and added to VLAN 2. G0/0/1 on SWA and G0/0/2 on SWB are configured as trunk interfaces to allow packets from all VLANs to pass through. Given this, which of the following configurations needs to be performed to ensure that the two hosts can communicate with each other?



- A. Create VLAN 2 on SWC.
- B. Configure G0/0/1 on SWC as a trunk interface that allows packets from VLAN 2 to pass through.
- C. On SWC, configure G0/0/1 as a trunk interface that allows packets from VLAN 2 to pass through, configure G0/0/2 as an access interface, and set the PVID to 2.
- D. Create VLAN 2 on SWC, and configure G0/0/1 and G0/0/2 as trunk interfaces that allow packets from VLAN 2 to pass through.

Answer: D

83. Which of the following IEEE 802.11 standards does not support the 5 GHz frequency band?

- ☐ A. 802.11n
- ☐ B. 802.11ac Wave 1
- ☐ C. 802.11ac Wave 2

D.802.11g

Answer:D

84. By referring to the information about an interface on R1 shown in the figure, which of the following statements is true?

```
[R1]display interface g0/0/0
GigabitEthernet0/0/0 current state : Administratively DOWN
Line protocol current state : DOWN
```

- ☐ A. GigabitEthernet0/0/0 has an incorrect cable connected.
- ☐ B. No IP address is configured for GigabitEthernet0/0/0.
- ☐ C. No dynamic routing protocol is enabled on GigabitEthernet0/0/0.
- ☐ D. GigabitEthernet0/0/0 has been manually shut down by an administrator.

Answer: D

85. Which of the following OSPF packets can ensure LSA update reliability?

☐ B. LSR
0 A. LSU

C. LSACK

D. O

E. D. DD

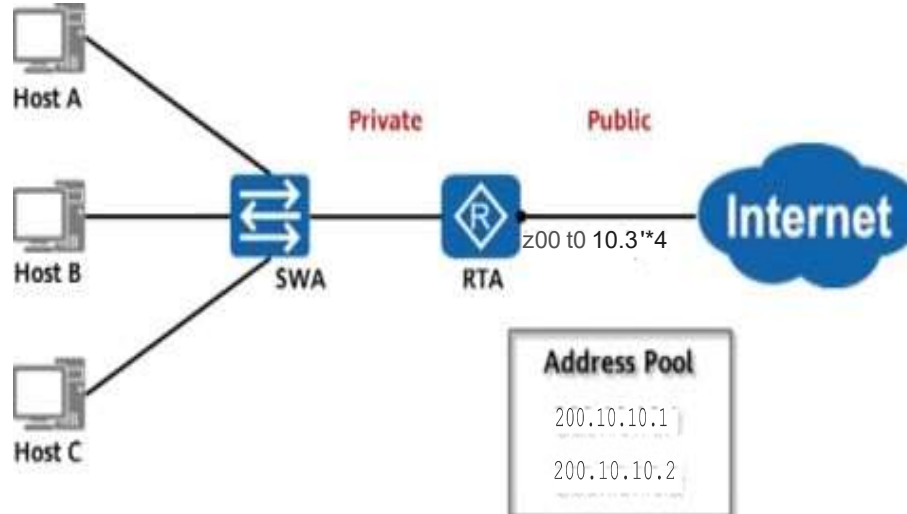
Answer:C

86. The administrator performs the configuration shown in the figure on a router, and a host is connected to G1/0/0 of the router. Which of the following statements is true about the IP address obtained by the host 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 segment.
- ☐ B. The IP address obtained by the host belongs to the 10.20.20.0/24 network segment.
- ☐ C. The host cannot obtain an IP address.
- ☐ D. The IP address obtained by the host may belong to the 10.10.10.0/24 or 10.20.20.0/24 network segment

87. As shown in the figure, RTA uses NAT and has an address pool configured to implement many-to-many non-NAPT address translation, so that hosts on the private network can access the public network. Assume that the address pool has only two public IP addresses, which are translated for Host A and Host B. If Host C wants to access the public network, which of the following statements is true?



- O A. RTA assigns an interface address (200.10. 10.3) to Host C, and Host C can access the public network.

- ☐ B. RTA performs NAT based on the source port number of Host C, and Host C can access the public network.
- ☐ C. No public IP address is assigned to Host C, and Host C cannot access the public network.
- ☐ D. All hosts use public IP addresses in turn and can access the public network.

Answer:C

88. The following figure shows the display stp command output on an STP-enabled port — Ethernet 0/0/1. Which of the following statements about the command output is false?

```
[Huawei]display stp interface Ethernet 0/0/1
-----[CIST Global Info][Mode STP]-----
CIST Bridge           :32768.4clf-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      .4clf-ccf7-3214 / 200000
CIST RegRoot/IRPC     :32768.4clf-cc46-4618 / 0
```

- A. The interval for Ethernet 0/0/1 to send configuration BPDUs is 2 seconds.
- B. The value of the Max Age timer of configuration BPDUs is 20 seconds.
- C. The value of the Forward Delay timer is 20 seconds
- D.** This switch is not the root bridge

Answer: C

89. Which of the following information is not included in the MAC address table of a switch?

- ☐ A. MAC address.
- ☐ B. Port number
- ☐ C. IP address
- ☐ D. VLAN ID

Answer:C

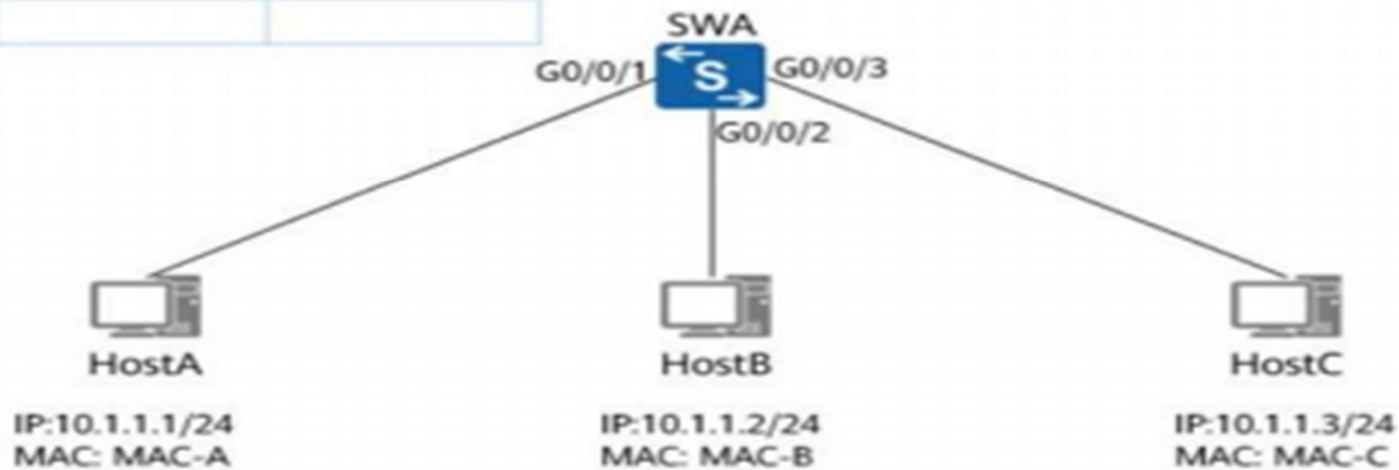
90. The Priority field in a VLAN tag can be used to identify the priority of a data frame. What is value range of the field?

- A. 0 to 3
- B. 0 to 7
- C. 0 to 15

D. 0 to 63

91. Assuming that SWA is just started and its MAC address table is empty, if HostA sends a data frame with the destination MAC address of MAC- B, which of the following statements is true?

MAC	Interface



- ☐ A. SWA discards the data frame
- ☐ B. SWA forwards the data frame through G0/0/2.
- ☐ C. SWA forwards the data frame through G0/0/3.
- ☒ D. The switch floods the data frame.

Answer: D

92. Which of the following parameters is used to elect the root bridge in STP?

- ☒ A. Bridge ID
- ☐ B. Port ID
- ☐ C. Root path cost
- ☐ D. System name of the switch

Answer:A

93, An AC is a unified management and control device in the AC + Fit AP architecture. Which of the following functions is not supported by the AC?

- ☐ A. User access control
- ☐ B. AP configuration delivery
- ☐ C. User access authentication
- ☐ D. User data packet forwarding regardless of the data forwarding mode

Answer: D

94 40、 Which of the following is the full name of VRP?

- ☒ A. Versatile Routi ng Platform
- ☐ B..
- ☐ O Virtual Routing Platform
- ☐ O C. Vetsatile Routing Protocol
- ☐ 0 D. Versatile Redundancy Platform

Answer:A

95 39. Which of the following statements is true about the OSPF backbone area?

☐ A. All areas can act as the backbone area.

☒ B. Area 0 is the backbone area.

☐ C. All routers in the backbone area are ABRs.

☐ D. When more than two routers run OSPF, the backbone area must be deployed.

Answer:B

96 , Which of the following advantages is/are inter-VLAN route interworking in one-arm routing mode ?

☐ A. Reduced the number of links

☐ B. Reduced the use of IP addresses

☐ C. Reduced the number of devices

☐ D. Reduces the number of entries in the routing table

Answer:B

97. Which of the following statements regarding the "port trunk allow-pass vlan all" command is true?

☒ A. The specified port allows all VLAN IDs to pass through.

☐ B. The peer port connected to this port must have the same port trunk allow-pass vlan all command configured.

☐ C. The peer device connected to this port can dynamically determine which VLAN IDs are allowed to pass through.

☐ D. If the port default vlan 3 command is not on the connected remote device, VLAN 3 will be blocked between the two devices.

9 8 . Which of the following **is** not an advantage of Wi-Fi 6 over Wi-Fi 5*

☒ A. Higher power consumption

☐ B. Higher bandwidth

☐ C. Higher number of STA's connected to each AP

☐ D. Lower transmission latency

99. If the MAC address of an interface is 00E0-FCEF-0FEC, the corresponding EUI-64 address is().

☐ A. 0ZE0-FCFF-REEF-0FEC

☐ B. 02E0-FCEF-FFF£-0FEC

☒ C. 00E0-FCEF—FEED-0FEC

☐ D. 00E0-FCEF—FFFE-0FEC

100. Which of the following statements is true about root bridge election of STP?

- A. If the bridge priorities of devices are the same, the device with the largest MAC address becomes the root bridge.
- B. the device with the largest bridge priority becomes the root bridge.
- C. The device with the smallest bridge priority becomes the root bridge.
- D. If the bridge priorities are the same, the device with the largest number of ports becomes the root bridge.

Answer:C

101 In STP, the bridge ID on the switch in network is as follows. With which of the following bridge ID's is the switch selected as the root bridge?

- A. 32768 00-01-02-03-04-CC
- B. 4096 00-01-02-03 -04- DD
- C. 2768 00-01 -02-03-04-AA
- D. 32768 00-01 -02 -03-04-8B

Answer: B

102. In which state does OSPF determine the master/slave relationship of DD packets?

- ☒ A. ExStart
- ☐ B. Exchange
- ☐ C. Full
- ☐ D. 2-way

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

- ☐ A. Destination/Mask
- ☐ B. Cost
- ☐ C. Next-hop

O D. Mac address

103. When a router is powered on, the router reads the configuration file saved in the default save directory to get itself initialized. If the configuration file does not exist in the default save directory, what does the router use to initialize itself*

O A. New configuration file.

O e. Initial configuration file.

O C. default parameters

O D. Current configuration file.

Answer:D

1-04. In the WLAN architecture, what is a terminal in compliance with 802.11 standards called?

☐ A. AP

☒ B. STA

☐ C. AC

☐ D. Client

105. Which of the following IPv4 addresses can not be assigned to a host to access the internet ?

☐ A. 100.1.1.1

☐ B. 200.11.1

☒ C. 10.1.1.1

☐ D. 50.1.1.4

Answer:C

106. How many VLANs are created when using the commands "vlan batch 10 20" and "vlan batch 10 to 20" ?

- A. 11 and 1
- B. 2 and 11
- C. 11 and 2
- D. 1 and 11

Answer:B

107. A port on a switch is connected to a designated port on the peer device. This port does not forward any packets, but can receive BPDUs to monitor network changes. What is the port role?

☐ A. Root port

☐ B. Designated port

☐ C. Alternate port

☐ D. Port in Disabling state

108. What are the components of the OSI reference model from top to bottom?

A. Application layer, presentation layer, session layer, transport layer, network layer, data link layer, and physical layer

B. Application layer, transport layer, network layer, data link layer, and physical layer

C. Application layer, session layer, presentation layer, transport layer, network layer, data link layer, and

physical layer

D. Application layer, presentation layer, session layer, network layer, transport layer, data link layer,

and physical layer

Answer:A

109. Which of the following statements does not correctly describe the effect of applying the ACL in the following figure to the SNMP process?

acl number 2000

Rule 5 permit source 192.
168. 1. 2

Rule 10 permit source
192. 168. 1. 3

Rule 15 deny source 192. 168. 1. 4

- ☐ A. The device with an IP address of 192.168.1.2 can use the SNMP service.
- ☐ B. The device with an IP address of 192.168.1.3 can use the SNMP service.
- ☐ C. the device with an IP address of 192.168.1.4 can use the SNMP service.
- ☒ D. The device with an IP address of 192.168.1.5 can use the SNMP service.

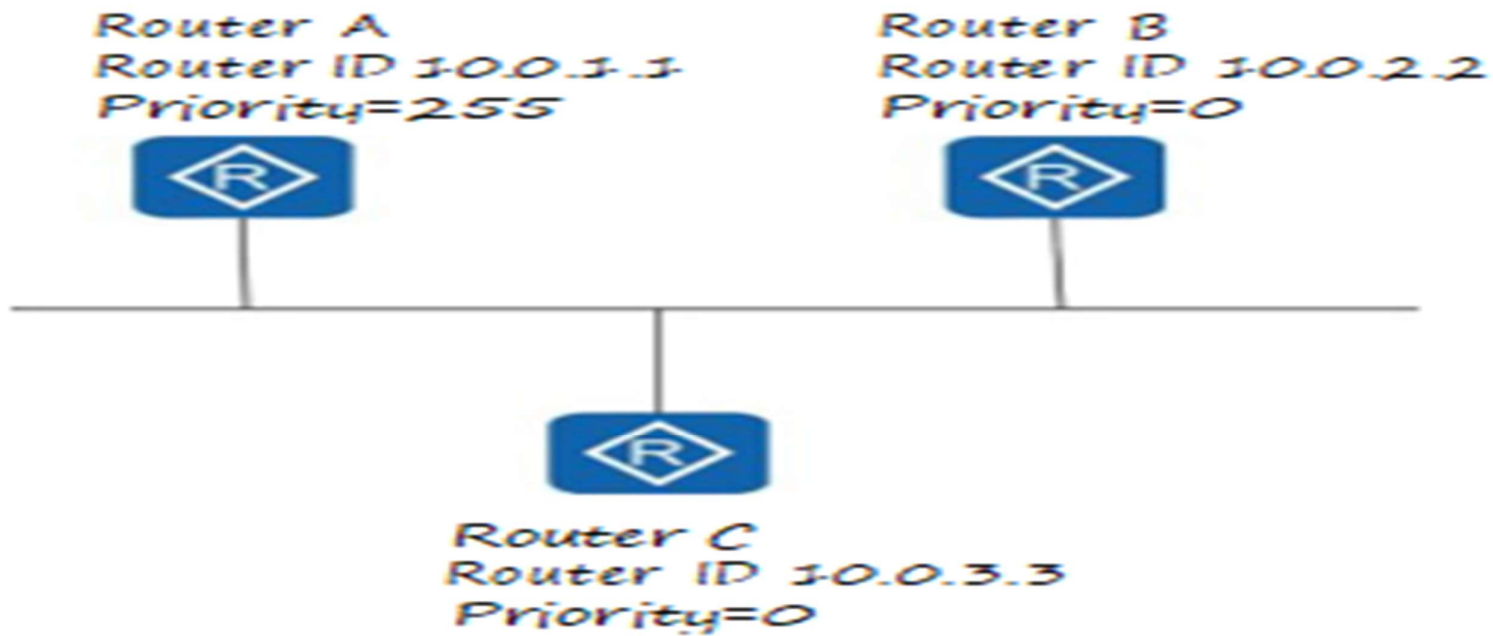
Answer:C

110, Which of the following statements about routers is false?

- ☐ A. A router works at the network layer.
- ☐ B. A router cannot isolate broadcast domains.
- ☐ C. A route can forward IP packets.
- ☐ D. A router can function as a gateway.

Answer: B

111. On the network shown in the figure, which router is elected as the BDR?



- A. Router A
- B. Router B
- C. Router C
- D. No BDR

Answer:D

112. Refer to the graphic. A web server in a private network is required to provide HTTP services to public users. The



network administrator is required to configure NAT on RTA. Which configuration should be used?

- ☒ A. [RTA-Serial1/0/1]nat server protocol tcp global 202.10.10.1 www inside 192.168.1.1 8080
- ☐ B. [RTA-Serial0/0/1]nat server protocol tcp global 192.168.1.1 www inside 202.10.10.1 8080
- ☐ C. [RTA-GigabitEthernet0/0/1]nat server protocol tcp global 202.10.10.1 www inside 192.168.1.1 8080

O D. [RTA- Gigabitethernet0/0/1]nat server protocol tcp global 192.168.1.1 www inside 202.10.10.1 8080

Answer: A

113. As shown in the figure, the administrator requires that all hosts cannot access the Internet during 8:00-7:00 every day. In this case, which ACL rule needs to be bound to traffic -filter outbound in the interface configuration of G0/0/1/



☒ A. time-range am9topm 5 08:00 to 17:00 daily

act number 2001
rule 5 deny time-range am9topm5

☐ B. time-range am9topm 5 08:00 to 17:00 daily

☐ C. time-range am9topmS 08:00
to 17:00 working-day acl

number 2003 rule S deny

time- range am9topm5

D. time-range am9topm5 08:00 to 17:00 off day

act number 2004

act number 2002

rule 5 permit time-range am9topm5

Answer:A

114. Which of the following parameters is used to detect link loops and other abnormalities in LCP negotiation?

☐ A. MRU

☒ B. Magic number

☐ C. PAP

☐ D. CHAP

115. Which of the following statements about firewalls is false?

☐ A. Firewalls can place networks at different security levels.

☐ B. A firewall can authenticate the user identity.

☒ C. A firewall cannot translate network addresses.

☐ D. A firewall can implement access control between different networks.

116. Which of the following statements correctly describes the effect of configuring the ACL in the following figure on a Telnet server?

act number 2000

rule 5 deny source 172. 16. 105. 3 0

rule 10 deny source 172. 16. 105. 1 0

Auto 15 deny source 172. 16. 105. 5 0

rule 20 permit

☐ A. The device with an IP address of 172.16.105.3 can use the Telnet service.

☐ B. The device with an IP address of 172.16.105.4 can use

the Telnet service. ☐ C. the device with an IP address of

172.16.105.5 can use the Telnet service. ☒ D. The device

with an IP address of 172.16.105.6 can use the Telnet service.

117. How many TCP connections will be established when FTP is used to transfer files?

☐ A. 1

☒ B. 2

☐ C. 3

☐ D. 4

118. As shown in the figure, STP is enabled on both switches. Which port is in Blocking state*

☐ A. G0/0/3 of SWA

☐ B. G0/0/2 of SWA

Bridge ID
4096 XI01-0203-
04AA SWA



B
r
i
d
g
e
I
D
3
2
7
6
&
1
-
0
2
0
3
-
0
4
B
B
S
W
B

119 After an eth-Trunk in an LACP mode is created, Device on both ends sends LACPDU to elect the Actor. Which of the following information will not be Carried in the LACPDU's ?

☐ A. Device priority

☐ B. MAC address

☐ C. Inter face priority

☒ D. Interface destination

120. Which of the following authentication modes does/do not require a user name and a password?

☐ A. authentication-mode hwtacacs

☐ B. authentication-mode local

☒ C. authentication-mode none

☐ D. authorization-mode hwtacacs

Answer :C

121, Which of the following statements is true about an STP-enabled port in Forwarding state*

☒ A. The port forwards user traffic and processes BPDUs.

☐ B. The port only receives and processes BPDUs and does not forward user traffic.

☐ C. The port does not process BPDUs or forward user traffic.

☐ D. The port creates MAC address entries based on the received user traffic but does not forward user traffic.

121, which of the following commands can switch a view from the system view to the user view*

☐ A. System-view.

☐ B. Router.

☒ C. Quit.

☐ D. User-view.

122 Which of the following packets is used by OSPF to discover and initialize ospf relationship

☒ A. HELLO

☐ B. LSk

☐ C. LSU

☐ D. DD

Answer:A

123, Which of the following routes has the highest priority?

A . Static route

B. Direct route

C. OSPF

D. RIP

Answer: B

124 On Huawei routers, which h of the following is the default preference of static routing ?

☐ A 0

☒ B. 60

O C. 00

O D.120

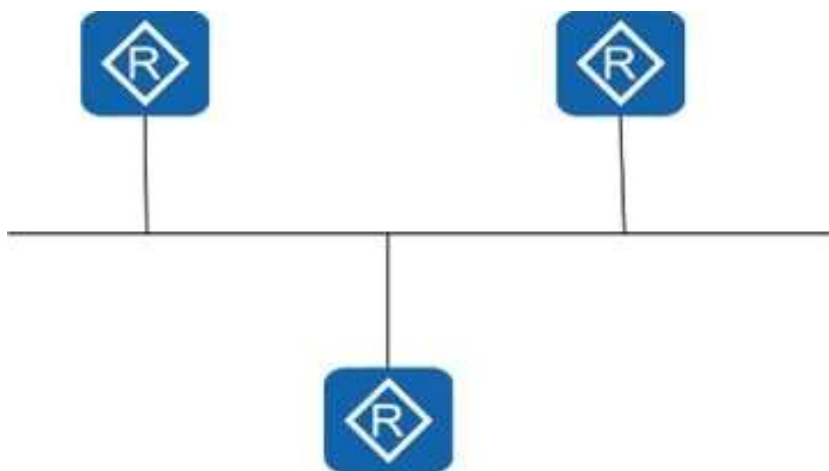
125 On the network shown in the figure, which router is elected as the BDR?

Router A

Router ID 10.0.1.1
Priority=255

Router B

Router ID 10.0.2.2
Priority=0



Router C

Router ID 10.0.3.3
Priority=0

- A. Router A
- B. Router B
- C. Router C
- D. No BDR

Answer: D

126, Assume that an OSPF-enabled router has no router ID configured. Refer to the IP addresses of all its interfaces in the figure. Which of the following is the OSPF router ID used by the router?

Interface	IP Address/Mask	Physical	Protocol
Ethernet0/0/0	10.0.12.1/24	up	up
Ethernet0/0/1	10.0.21.1/24	up	up
LoopBack0	10.0.1.1/32	up	up(s)
LoopBack1	10.0.1.2/32	up	up(s)

- ☐ A. 10.0.12.1
- ☐ B. 10.0.21.1
- ☐ C. 10.0.1.1
- ☒ D. 10.0.1.2

127. Which of the following Method can read all data blocking in the telnet library role of Python

☐ A. `telnet.read all()`

☒ B. `telnet_.read_very_eager()`

☐ C. `teInet_read_eager{}`

☐ D. `telne_.read_very_lazy{}`

Answer: B

128. Network Address and Port Translation (NAPT} allows multiple private \P addresses to be mapped to the same public IP address through different port numbers. Which of the following statements about port numbers in NAPT is true?

☐ A. The mappings between port numbers and private IP addresses must be manually configured.

☒ B. Only the port number range

needs to be configured.

C. No port number needs to be

configured.

☐ D. in xcl is required to allocate port numbers.

Answer:B

129. Which of the following port in huawei is use<J by the FTP control plane ?

A.21

☒ B. 22

☐ C.2

☐ D. 24

Answer:A

130. Which of the following DHCP options needs to be configured on the DHCP server to allow Fit APs to obtain the IP address of an AC and establish CAPWAP tunnels?

☐ A. Option 55

☒ B. Option 43

☐ C. Option 82

☐ D. Option 10

130. The following figure shows the display stp command output on an STP-enabled port — Ethernet 0/0/1. Which of the following statements about the command output is false?

```
[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-cc46-4618 / 0
```

O The interval for Ethernet 0/0/1 to send configuration BPDUs is 2 seconds.

O s The value of the Max Age timer of configuration BPDUs is 20 seconds.

☒ c. The value of the forward Delay timer is 20 seconds.

O D. This switch is not the root bridge.

132, Which of the following statements about Length/Type - 0x8100 in an Ethernet data frame is/are true*

☒ A. The data frame must carry a VLAN tag.

☐ B. The upper layer of the data frame must have an IP header.

☐ C. The upper layer of the data frame must have a TCP header.

0 D. The upper layer of the data frame must have a UDP header.

133. What is the number range of a basic ACL RULE ?

☒ A. 2000-2999

☐ B. 3000-3999

☐ C. 4000-4999

☐ D. 6000-6031

134. Which type of IPv6 address is FE80::2E0:FCFF:FEGF:4F36

A. Link-local address

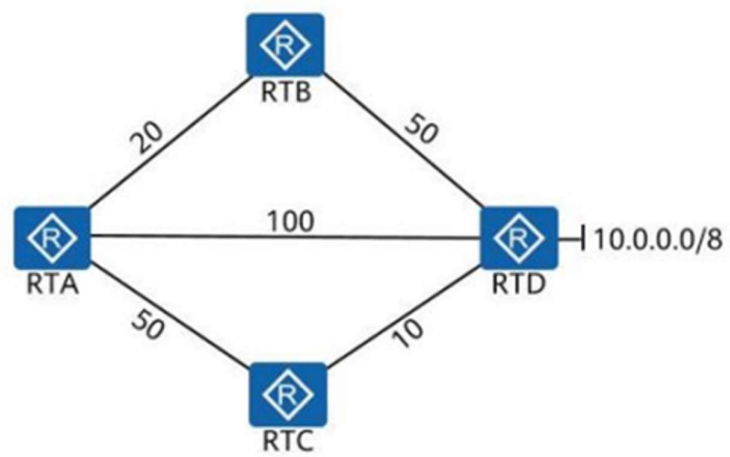
☐ B. Multicast addresses

C. Unique local unicast address

☐ D. Anycast address

Answer: A

135. Refer to the network shown in the following figure. All routers are running OSPF, and the numbers such as 10, 20, 50, and 100 are the link costs. What is the cost of the route to the network 10.0.0.0/8 in the RTA routing table?



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

136. Which of the following Command Can be used to permanently delete the old <device configuration file ?

- ☐ A. delete /force cot1fig.zip
- ☐ B. delete /unreserved ronfig.zip
- ☐ C. reset config.zip

☐ D. clear config.zip

Answer:B

137. A configured internal host of a private network wishes to access the internet. What must be configured on the enterprise network egress router in order to achieve this?

☒ A. Easy IP.

☐ B.
DHCP.

☐ C.
BGP.

☐ D. Default route.

138, Which of the following statements is false about OSPF area partition 7

☐ A, the link state databases (LSDBs) of routers are the same in the same OSPF area.

- ☐ B. OSPF area partition can reduce the LSDB size of the router.
- ☐ C. Area 0 is the backbone area, and other areas must be connected to this area.
- ☒ D. Only area border routers (ABRs) can function as the autonomous system boundary routers (ASBRs)

139. What is the protocol of RA(Router Advertisement) packet which is used in IPv6 stateless address auto-configuration?

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

140. which of the following packets is used by an AP to proactively declare its SSID so that STAs can obtain the SSID of the WLAN*

☐ A. Probe

☒ B. Beacon

☐ C. Join

☐ D. Discovery

141 Segment routing (SR) is a protocol designed based on () to forward data packets on a network.

☒ A. Source routing

☐ B. Destination
routing

☐ C. Policy-based

routing

☐ D. Routing policy

142, What is the main function of a dynamic routing protocol?

☐ A. Manage routers.

☒ B. Generate a routing table.

☐ C. Generate an IP address.

☐ D. Control the status of router interface

143. Which SNMP version focuses on two main aspects, namely security and administration. The security aspect is addressed by offering both strong authentication and data encryption for privacy. The administration aspect is focused on two parts, namely notification originators and proxy forwarders.

A. SNMP V1

B. SNMP V2c

C> SNMP V3

C. SNMP v2

Answer: C

144. Which of the following statements regarding the `port trunk allow-pass vlan all` command is true?

- ☒ A. The specified port allows all VLAN IDs to pass through.
- ☐ B. The peer port connected to this port must have the same `port trunk allow-pass vlan all` command configured.
- ☐ C. The peer device connected to this port can dynamically determine which VLAN IDs are allowed to pass through.
- ☐ D. If the port default `vlan 3` command is run on the connected remote device, VLAN 3 will be blocked between the two devices.

145. The users who log on the router through Telnet are not permitted to configure IP address. What is the possible reason?

☐ A. Communication failures occur between the user and the router.

☐ B. The authentication mode of Telnet is set incorrectly.

☒ C. Privilege level of Telnet is set incorrectly.

☐ D. SNMP parameters are set incorrectly.

146. Which of the following statements regarding the "port trunk allow-pass vlan all" command is true?

☐ A. The specified port allows all VLAN IDs to pass through.

☐ B. The peer port connected to this port must have the same port trunk allow-pass vlan all command configured.

☐ C. The peer device connected to this port can dynamically determine which VLAN IDs are allowed to pass through.

☐ D. If the port default vlan 3 command is run on the connected remote device, VLAN 3 will be blocked between the two devices.

147, Which of the following is a link-state routing protocol*

☐ A. Direct

☒ B. OSPF

☐ C. FTP

☐ D. Stalic

148, When IPv4 is used as the network layer protocol, which of the following fields is not contained in the network layer header?

☐ A. Source IPv4 Address

☐ B. Destination IPv4 Address

☐ C. TTL

☒ D. Sequence Number

149, Which of the following is not a transmission medium for WLAN*

☐ A. Radio wave

☐ B. Ray

☒ C. Laser

☐ D. Infrared ray

150, What is the number range of an advanced ACL?

☐ A. 2000—2999

☒ B. 3000—3999

☐ C. 4000-4999

☐ D. 6000-6031

151. Refer to the following configuration of a serial interface. Which of the following statements is false?

```
#
interface GigabitEthernet0/0/2
 port hybrid pvid vlan 100
 port hybrid tagged vlan 100
 port hybrid untagged vlan 200
#
```

☐ A. The link type of the interface is hybrid.

☒ B. If the VLAN tag carried in a data frame is 100, the switch removes the VLAN tag before sending the data frame. ☐ C. If the interface receives data frames without VLAN tags, the switch needs to tag the data frames with VLAN 100. ☐ D. If the VLAN tag carried in a data frame is 200, the switch removes the VLAN tag before sending the data frame.

152. Which one of the following methods cannot be used by a Fit AP to obtain the IP address of an AC for going online?

☐ A. Broadcast

☐ B. DHCP Option

- ☐ C. Statically specified on the AP
- ☐ D. multicast

Answer: D

153. What is the main function of a dynamic routing protocol ?

- ☐ A. Manage routers.
- ☒ B. Generate a routing table.
- ☐ C. Generate an IP address.
- ☐ D. Control the status of routing interfaces.

154. Which of the following statements is true about the OSPF backbone area?

- ☐ A. All areas on the backbone area

'-> B. Area 0 is the backbone area.

☐ C. All routers in the backbone area are ABRs.

☐ D. When more than two routers run OSPF, the backbone area must be deployed.

155 Which of the following OSPF states can be used to indicate that an adjacency relationship has been established?

☐ A. Down

☐ B. 2-way

☐ C. Full

☐ D. Attempt

Answer: C

156. Refer to the following configuration of an interface on a switch. For which VLAN does the interface remove VLAN tags before forwarding data frames*

```
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. 20

☐ C. 30

☐ D. 40

157. Which of the following is correct regarding the configuration of the trunk port and access port on a switch?

A. Access ports can only send untagged frames.

☐ B. Access ports can only send tagged frames.

☐ C. Trunk ports can only send untagged frames.

☐ D. Trunk ports can only send tagged frames.

Answer:A

158. which of the following ranges can the VLAN IDs be used by users?

☐ A. 0 to 4095

☐ B. 1 to 4096

☐ C. 0 to 4096

☐ D. 1 to 4094

159. UDP is connectionless. As such, which of the following must be used to ensure transmission reliability?

☐ A. Internet protocol

B. Application layer protocol

☐ C. Network layer protocol

☐ D. Transmission Control Protocol

Answer:B

160. Assume that an OSPF-enabled router has no loopback interface configured. Which Id would be used as the router ID?

☐ A. The smallest Ip address of a physical interface on the router (configured)

☒ B. The biggest IP address of a physical interface on the router (if configured)

O C. The IP address of the router's management interface (if configured }

O D. The preference of the router

161. Which of the following fields in an IPv6 header is similar to the TTL field in an IPv4 header?

- A. Traffic class
- B. Next header
- C. Hop limit
- D. Version Answer:C

162. Which of the following addresses is the solicited-node multicast address corresponding to the IPv6 address 2019::8:AB ?

A FF02::1:FF06:AB

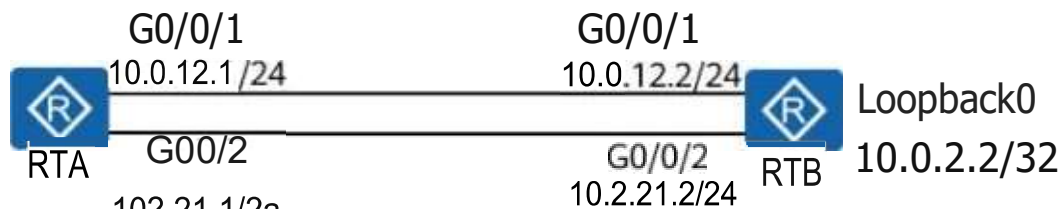
B FF02::1: FF20:19

C. FF02::FF08:AB

D. FF02:: 1: FE08:AB

Answer:A

163. Refer to the network shown in the following figure. The administrator requires that RTA use static routes to send data packets to Loopback0 of RTB through G0/0/1 and use G0/0/2 as a backup. Which of the following configurations on RTA meet this requirement?



T•' 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 70

O 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

O C. ip route-static 10.0.2.2 255.255.255.255 10.0.21.2 preference 70
 ip route-static 10.0.2.2 255.255.255.255 10.0.21.2

O 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 40

164. Which of the following mask lengths is recommended for device interconnection IP addresses during

campus network planning *

% A 30

.

O e. 24

O C. 32

0 D 16

.

165. What is the total length of the interface ID in each link-local unicast address?

A. 32 bits

/B. 48 bits

C. 64 bits

D. 96 bits Answer :C

166. On the Versatile Routing Platform (VRP}, which of the following commands is used to display the current interface configuration in the interface view?

- ☐ A. display users
- ☐ B. display version
- ☐ C. display ip interface brief
- ☒ D. display this

167. A switch receives a unicast data frame with a VLAN tag, but cannot find the destination MAC address of the data frame in its MAC address table. In this case, which action will the switch take ?

☐ A. The switch broadcasts the data frame on all interfaces.

☐ B. The switch broadcasts the data frame on all interfaces except that on which it was received) in the VLAN to which the data frame belongs.

- ☐ C. The switch broadcasts the data frame on all access interfaces.
- ☐ D. The switch discards the data frame.

Answer:B

168. A port on a switch is connected to a designated port on the peer device. This port does not forward any packets, but can receive BPDUs to monitor network changes. What is the port role?

- ☐ A. Root port
- ☐ B. Designated port
- ☒ C. Alternate port
- ☐ D. Port in disabling state

169. Which one of the following can be configured on an AP to provide differentiated network services for users*

☐ A. WAN

☒ B. VAP

☐ C. VT

☐ D. VAC

170 Which of the following cannot be the length of an IPv4 packet header ?

☐ A. 20 B ☐

☐ 32 B ☐ C.

☒ 60 B ☐ D.

64B

Answer:D

171: what is the number range of a basic ACL?

☒ A. 2000-2999

☐ B. 3000-3999

☐ C. 4000-4999

☐ D. 6000-6031

172. After the administrator performs the configuration shown in the figure on a router, which of the following commands can be used to specify a short lease for addresses assigned using DHCP?

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

☐ A. dhcp select relay

B. lease day 0 hour 10

☐ C. lease 24

☐ D. lease 0

Answer:B

173. OSPF allows for multiple processes. By default, OSPF selects a process whose number is ().

☐ A 0

B. 1

☐ C. 10

☐ D. 100

Answer:B

174. Which of the following field is not included in the OSPF Hello packet ?

- ☐ A. Hello Interval
- ☐ B. Neighbor
- ☐ C. Network Mask
- ☐ D. sys name

Answer:D

175. Refer to the following figure of the ACL configured on a router. Which of the following Statements is true?

```
acl number 2000
```

```
rule 5 permit source 192.168.1.1 0
```

! A. The data packets with the source IP address 192. 68.1.1 match the permit rule.

B. The data packets with the source IP address 192. 08.1.1 or 192. 66. .254 match the permit rule.

C. The data packets with the source IP address 192.168.1.1 match the deny rule.

O D. The data packets with the source IP address 92. 68.1.254 match the permit rule.

176. After a network administrator enables the traceroute function on a router, what is the value of the "Protocol" field in the IPv4 header of the data packet sent by the router?

☒ A. 1

O B. 2

O C. 6

O D. 17

177. Which of the following parameters \s used to elect the root bridge inSTP?

☒ A. **Bridge ID**

☐ B. PortID

☐ C. Root path cost

☐ D. System name of the switch

178. Which of the following is used to identify the data- link layer MAC address of a VAP on an AP?

☒ A. BSSID

☐ B. SSID

☐ C. ESS

☐ D. BSS

179. Which of the following is not a transmission medium for WLAN*

☐ A. Radio wave

☐ B. Ray

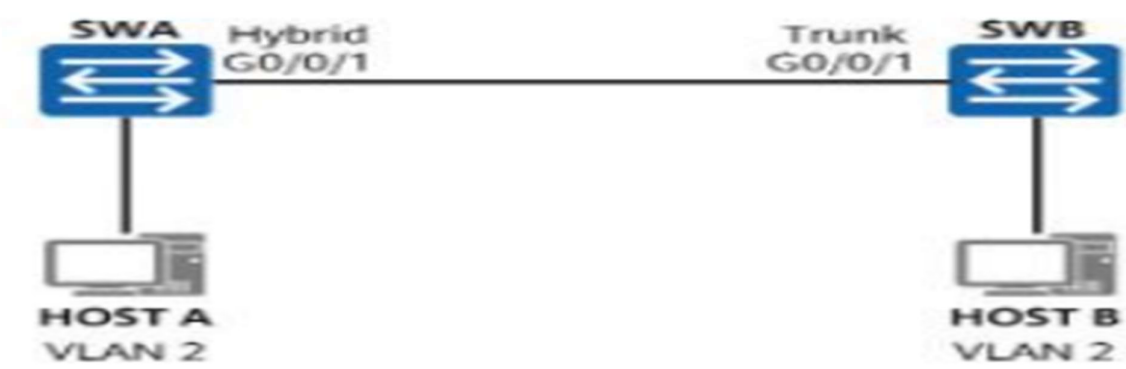
☒ C. **Laser**

☐ D. Infrared ray

180. Which of the following is not a characteristic of small campus networks?

- ☐ A. Small number of users
- ☐ B. Simple network requirements
- ☐ C. Simple network architecture
- ☒ D. Wide coverage

181. As shown in the figure, SWA and SWB each connect to a host through an access interface and their PVIDs are both 2. GO/0/1 on SWA is a hybrid interface and its PVID is 1, and the port hybrid tagged vlan2 command is configured. Also, GO/0/1 of SWB is a trunk interface, has a PVID of 1, and is configured to allow packets from VLAN 2 to pass through. Given this, which of the following statements is true?



- ☐ A. HOST A can send data frames to HOST B, but cannot receive responses from HOST B.

182. Refer to the display startup command output shown in the figure on an AR2200 router. Which of the following statements about the command output is false?

```
<Huawei>display startup
MainBoard:
  Startup system software:          sd1:/ar2220-v200r003c00spc200.cc
  Next startup system software:     sd1:/ar2220-v200r003c00spc200.cc
  Backup system software for next startup:  null
  Startup saved-configuration file:    null
  Next startup saved-configuration file:  null
  Startup license file:              null
  Next startup license file:          null
  Startup patch package:             null
  Next startup patch package:         null
  Startup voice-files:                null
  Next startup voice-files:           null
```

- ☐ A. The running configuration file is not saved.
- ☐ B. The system file used for the current startup is ar2220-v200r003c00spc200.cc.

@ **C. The system file for next startup cannot be modified.**

- ☐ D. The startup system software <startup-software-name> command can be used to modify the system software for next startup.

183. Refer to the following configuration of an interface on a switch. For which VLAN does the interface remove VLAN tags before forwarding data frames?

```
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. 20
- C. 30
- D. 40

184. The network administrator performs the configuration shown in the following figure on RTA. If a riser needs to be authenticated in the authentication domain named hriawei, which of the following statements is true?

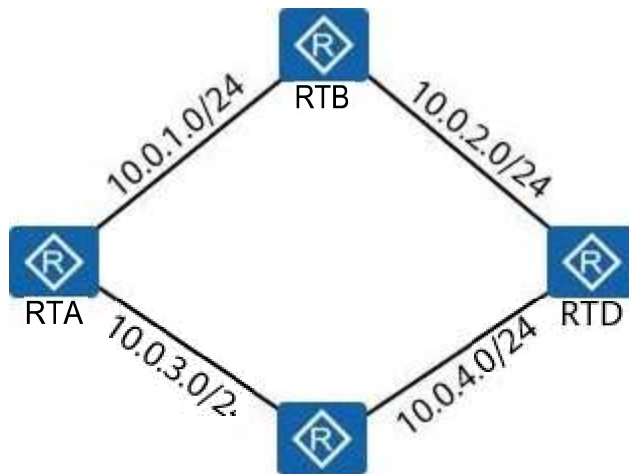
```
[RTA]aaa
[RTA-aaa]domain huawei
[RTA-aaa-domain-huawei]authentication-scheme au1
[RTA-aaa-domain-huawei]authentication-scheme au2
```

- ☐ A. The authentication scheme au1 is used for authentication.
- ☐ B. The authentication scheme au2 is used for authentication.
- ☐ C. The authentication scheme au1 is used for authentication. If the authentication scheme au1 is deleted, the authentication scheme au2 is used.
- ☒ D. The authentication scheme au2 is used for authentication. If the authentication scheme au2 is deleted, the authentication scheme au1 is used.

185. If a routing table contains multiple routes to the same destination network, what are these routes called?

- ☒ A. Equal-cost routes
- ☐ B. Sub-optimal routes
- ☐ C. Multipath routes
- ☐ D. Default routes

186. In the following figure, all links are Ethernet links, and all interfaces on the routers are running OSPF. Given this, how many DRs will be elected on this network?



C) A. 1

☐ B. 2

C.5

☐ D. 4

187. Which of the following IPv6 addresses is a link-local address?

A. FE80::2E0:FCFF:FEEF:FEC

☐ B. FF02::2E0:FCFF:FEEF:FEC

☐ C. 2000::2E0:FCFF:FEEF.FEC

☐ D. FCOO::2E0:FCFF:FEEFFEC

Answer:A

188. In standard STP mode, which of the following ports on non-root switches forward the BPDUs with TC bits set

generated by the root switch?

☐ A. Root port.

☐ B. Backup port.

☒ **C. Designated** port.

☐ D. Alternate port.

189. Which of the following IEEE 802.11 standards is named Wi-Fi 6?

A. 802.11a

B. 802.11au

C. 802.11ax

D. 802.11at

Answer: C

190. Which of the following statements regarding static routing and dynamic routing is incorrect?

- ☐ A. The static routing can be easily configured and managed on the enterprise network.
- ☐ B. The use of dynamic routing is more convenient for the administrator to manage the network following network convergence.
- ☒ C. The static routing can automatically Discover when a link failure is encountered.
- ☐ D. Dynamic routing will use more resources than static routes.

191. Which of the following statements is true about the OSPF backbone area?

- A. All areas can act as the backbone area.
- B. Area 0 is the backbone area.**
- C. All routers in the backbone area are ABRs.
- D. When more than two routers run OSPF, the backbone area must be deployed.

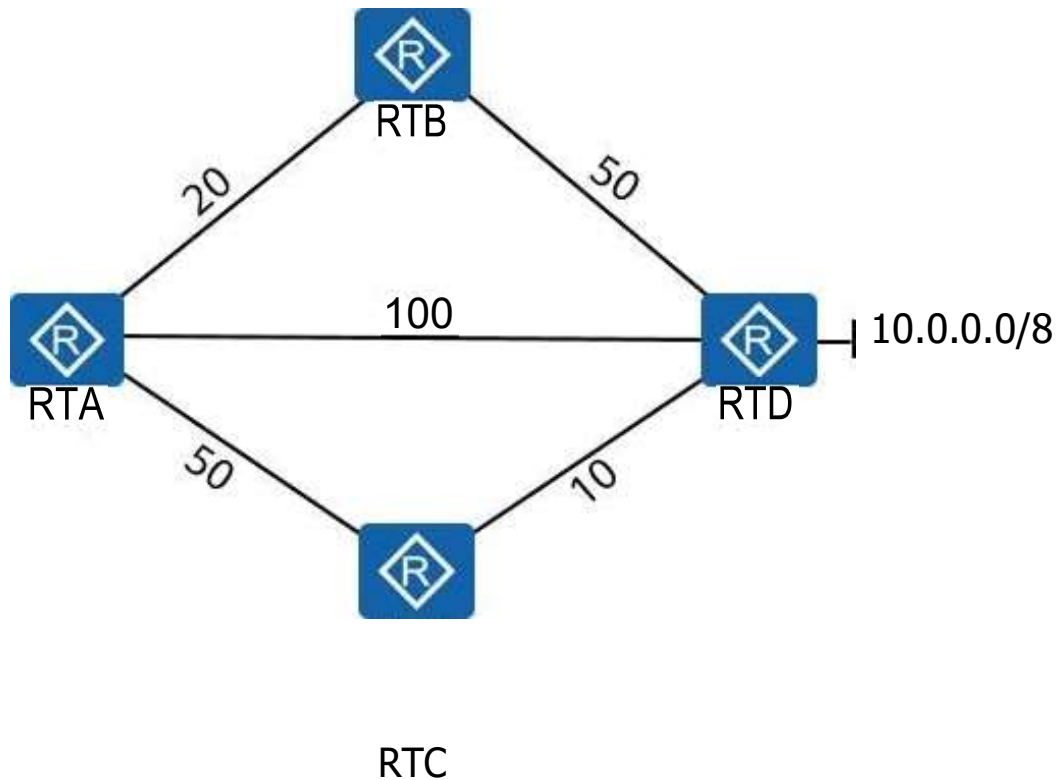
192. Which of the following IPv6 addresses is a global unicast address?

- A. 2001::1 2:1**
- B. FE80::2E0:FCFF:FEEFFEC

C. FF02::1

D. FF02.2E0:FCFF:FEEF:FEC

193. Refer to the network shown in the following figure. All routers are running OSPF, and the members such as 10, 20, 50, and 100 are the link costs. What is the Cost of the route to the network 10.0.0.0/8 in the RTA routing table?

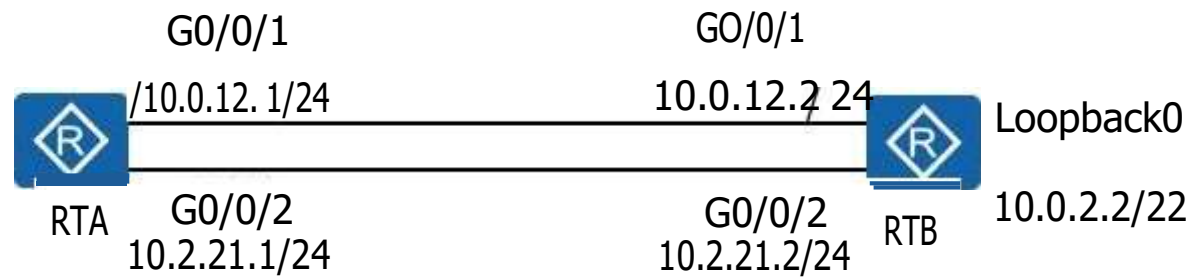


☐ A. 20

☐ B. 70

C.60

194. Refer to the network shown in the following figure. The administrator requires that RTA rise static routes to send data packets to Loopback of RTB through G0/0/1 and rise G0/0/2 as a backup. Which of the following Configurations on RTA meet this requirement?



A. ip route-static 1 0.0.2.2 255.255.255.255 10.0.12.2

ip route-static 1 0.0.2.2 255.255.255.255 10.0.21.2 preference 70

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

O 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

O 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 40

195. In the case of Huawei router, what is the "-i" parameter in a Ping command issued on a VRP operating system used to set?

A. Interface for sending an Echo Request packet.

☐ B. Source IP address for sending an Echo

Request packet.

☐ C. Interface for receiving an Echo Reply packet.

☐ D. Destination IP address for receiving an Echo Reply packet.

196. What Action does an access port take in the process of sending VLAN frames?

☐ A. The access port sends tagged frames.

☒ B. **The access port strips the VLAN tag and forwards the frame.**

☐ C. The access port exchanges the VLAN tag of the inbound and outbound port of the frame before forwarding the frame.

☐ D. The access port attaches its PVID information to the frame.

197. Which of the following is not a common device deployed on a data communication network?

☐ A. Router

☐ B. Switch

☐ C. Firewall

☒ D. Agile Controller

198. If PPP authentication fails, which type of packet will be sent to the authenticated peer by the authenticator?

☐ A. Authenticate-Ack.

☒ B. Authenticate-Nak.

☐ C. Authenticate-
Reject.

☐ D. Authenticate-
Reply.

199. To ensure that one data flow is always forwarded on the same physical link of an Eth-Trunk, which load balancing mode does the E-Trunk use?

☒ **A. Load balancing based on flows**

☐ B. Load balancing based on packets

☐ C. Load balancing based on the inbound interface of data packets

☐ D. Load balancing based on application-layer information

200. Which of the following is used to identify the coverage of an AP?

☐ A. ESS

☒ B. BSS

☐ C. SSID

☐ D. BSSID

201. To establish multiple PPP point-to-point connections in the Ethernet network, a PPPoE server establishes connections with multiple PPPoE clients on one Ethernet port. How does PPPoE differentiate between each connection?

☐ A. MAC Address.

☐ B. IP Address and MAC Address.

☐ C. MAC Address and PPP-ID.

☒ D. MAC Address and Session-ID.

202. What is the number range of a Layer 2 ACL?

☐ A. 2000-2999

☐ B. 3000-3999

C. 4000—4999

☐ D. 6000—6031

203. The LACP priority is shown in the figure. Switch A and switch B adopt link aggregation in LACP mode, all interfaces are added to the link aggregation group (LAG), and the maximum number of active ports is set to 3. Which port of Switch A is not an active port?

SWA	G0/0/3 PRI:400	SWB	G0/0/3 PRI:100
	G0/0/2 PRI:300		G0/0/2 PRI:200
	G0/0/1 PRI:200		G0/0/1 PRI:300
	G0/0/0 PRI:100		G0/0/0 PRI:400

SWA

32768

Priority:

SWB

Priority:6
5535

A. G0/0/0

B. GO/0/1

C. G0/0/2

D. GO/0/3

204. Which of the following addresses is the solicited-node multicast address Corresponding to the IPv6 address 2019.:8:AB?

S A. FF02::FF08:AB

B. FF02::1:FF20:19

C. FF02::FF08:AB

D. FF02::1 :FE08:AB

205. Which of the following statements about MPLS labels is false?

A. A label is a short, fixed-length identifier that is only locally significant.

B. A label uniquely identifies a forwarding equivalence class (FEC) to which a data packet belongs

C. Labels are encapsulated between the network layer and transport layer.

D. A label does not contain topology information. It is carried in the header of a packet.

206. As shown in the figure, the host has ARP CaChe. Host A sends a data packet to host B. Which of the following are the destination MAC address and destination IP address of the data packet?



☐ B. MAC-B,11.0.12.1

C.MAC-C,11.0.12.1

IP:11.0.12.1/24
GW:11.0.12.2
MAC: MAC-B

☐ D. MAC-C,10.0.12.2

☐ A. MAC-A, 10.0.12.1

207. In which state does OSPF determine the master/slave relationship of DD packets

A. ExStart

B. Exchange

C. Full

D. 2-way

208. How many bits are there in an IPv6 address ?

A. 32

B. 96

C. 128

D. 64

209. Which of the following OSPF packets can ensure LSA update reliability?

A. LSU

B. LSR

C. LSACK

E. DD

210. On the Versatile Routing Platform (VRP), which of the following commands is used to display the current interface Configuration in the interface view?

☐ A. display users

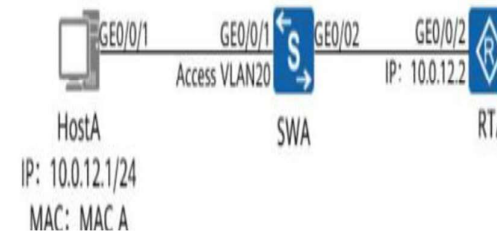
☐ B. display version

☐ C. display ip interface brief

☒ **D. display this**

1. As shown in the following figure, the router uses a sub-interface as the gateway of the host and the IP address of the gateway is 10.0.12.2. Which of the following commands can be used to meet this requirement?

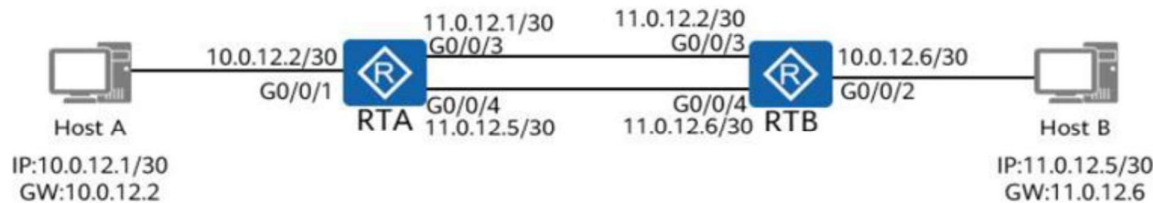
- ☒ A. `interface GigabitEthernet0/0/0.20`
`dot1q termination vid 20`
`ip address 10.0.12.2 255.255.255.0`
`arp broadcast enable`
`#`
- ☒ B. `interface GigabitEthernet0/0/0.10`
`dot1q termination vid 20`
`ip address 10.0.12.2 255.255.255.0`
`arp broadcast enable`
`#`
- ☐ C. `interface GigabitEthernet0/0/0.20`
`dot1q termination vid 10`
`ip address 10.0.12.2 255.255.255.0`
`arp broadcast enable`
`..`



2. Which of the following statements about VLAN design and planning on campus networks are true?

- a. Allocate consecutive VLAN 1Ds to ensure proper use of VLAN resources.
- b. Reserve a specific number of VLANs for future use.
- c. Preferentially assign VLANs based on MAC addresses. This is the most commonly used method for VLAN assignment.
- d. Preferentially assign VLANs based on ports. This is the most commonly used method for VLAN assignment.

3. On the network shown in the figure, when planning traffic, the network administrator requires that the data packets sent from host A to host B pass through G0/0/3 on the router, and the packets sent from host B to host A pass through G0/0/4 on the router. Which of the following commands can be used to meet this requirement?



- A. Router A : ip route—static 10.0.12.5 255.255.255.252 11.0.12.2
Router B : ip route—static 10.0.12.1 255.255.255.252 11.0.12.5
- B. Router A : ip route—static 10.0.12.5 255.255.255.252 11.0.12.6
Router B : ip route—static 10.0.12.1 255.255.255.252 11.0.12.1
- C. Router A : ip route-static 0.0.0.0 0.0.0.0 11.0.12.2
Router B : ip route—static 0.0.0.0 0.0.0.0 11.0.12.5
- D. Router A : ip route—static 0.0.0.0 0.0.0.0 11.0.12.6
Router B : ip route—static 0.0.0.0 0.0.0.0 11.0.12.1

4. Which of the following parameters must be considered during root port selection in STP

- A. Cost to the root switch.
- B. Port priority.
- C. Slot ID of the port, such as G0/0/1.
- D. Port MAC address.
- E. Port duplex mode.

5. Virtualization is the foundation of Network Functions Virtualization (NFV). Which of the following statements correctly describe virtualization?

- A. Multiple VMs can concurrently run on a single physical server.
- B. VMs on the same physical Server are isolated from each other.
- C. VMs are decoupled from hardware and can be migrated between servers.
- D. VMs run on the same operating system and are separated by namespaces.

6. Refer to the following display ip routing-table command output on the router R1. Which of the following statements are true?

```
<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   70    0        RD   10.0.21.2          Ethernet0/0/1
```

- ☒ A. The outbound interface from R1 to 10.0.0.1 is Ethernet0/0/0.
- ☐ B. The outbound interface from R1 to 10.0.0.1 is Ethernet0/0/1.
- ☐ C. The outbound interface from R1 to 10.0.2.2 is Ethernet0/0/0.
- ☒ D. The outbound interface from R1 to 10.0.2.2 is Ethernet0/0/1.

7. Which of the following VRP commands can be used to enter area 0 view?

- ☐ A. [Huawei]ospf area 0
- ☒ B. [Huawei-ospf-1]area 0
- ☒ C. [Huawei-ospf-1]area 0.0.0.0
- ☐ D. [Huawei-ospf-1]area 0 enable

8. Which of the following frequency bands are supported by IEEE 802.11n?

☒ A. 2.4 GHz

☐ B. 2.5 GHz

☒ C. 5 GHz

☐ D. 6 GHz

9. Refer to the following figure showing the RADIUS configuration of a router. Which of the following statements about the configuration are true?

```
#
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 IP address of the authentication server is 200.0.12.1.

☐ B. The IP address of the authorization server is 200.0.12.1.

☒ C. The IP address of the accounting server is 200.0.12.1.

☒ D. The source IP address of the RADIUS packets sent by the router is 200.0.12.2.

10. If the IPv4 address of a host on a LAN is 192.168.1.1/30, the host will process IP packets with specific destination IP addresses. Which of the following IP addresses may be the destination IP addresses?

☒ A. 192.168.1.1

☐ B. 192.168.1.2

☒ C. 192.168.1.3

☒ D. 255.255.255.255

11. Which of the following statements are true about the default route?

☒ A. If the destination address of a packet does not match any entry in the routing table, the packet is forwarded through the default route.

☒ B. In a routing table, the route to 0.0.0.0 (with the mask being 0.0.0.0) is the default route.

☐ C. The routing table of any router must contain the default route.

☐ D. The default route can only be manually configured by the administrator.

12. In STP, which of the following items may affect the selection of the root switch?

- ☒ A. Switch priority.
- ☐ B. Switch port ID.
- ☐ C. Switch interface bandwidth.
- ☒ D. Switch MAC address.
- ☐ E. Switch IP address.

13. In which of the following scenarios does the Forward Delay timer exist?

- ☐ A. The STP-enabled port transitions from Disabled to Blocking.
- ☐ B. The STP-enabled port transitions from Blocking to Listening.
- ☒ C. The STP-enabled port transitions from Listening to Learning.
- ☒ D. The STP-enabled port transitions from Learning to Forwarding.
- ☐ E. The STP-enabled port transitions from Forwarding to Disabled.

14. Which of the following MAC addresses cannot be used as the MAC addresses of host network adapters?

☐ A. 00-02-03-04-05-06

☒ B. 01-02-03-04-05-06

☐ C. 02-03-04-05-06-07

☒ D. 03-04-05-06-07-08

15. Which of the following statements about IPv6 anycast addresses are true?

A. Packets destined for an anycast address are sent to the nearest interface identified based on the routing distance.

B. Anycast and unicast addresses use the same address space.

C. IPv6 anycast addresses provide redundancy functions for services.

D. IPv6 anycast addresses implement load balancing for services.

16. Which of the following statements about the "S" field in the MPLS packet header are true?

- ☒ A. The field indicates whether there are other labels behind the current label. 0: Yes; 1: No.
- ☐ B. The field indicates whether there are other labels behind the current label. 1: Yes; 0: No.
- ☒ C. The "S" field exists in each MPLS packet header.
- ☐ D. The "S" field is 1 bit long in frame mode and 2 bits long in cell mode.

17. Which of the following statements about the process of establishing a PPP link are false?

- ☐ A. The physical layer is unavailable during the Dead phase. When two communicating devices detect that the physical link between them is activated, PPP enters the Establish phase from the Dead phase.
- ☐ B. In the Establish phase, the two devices perform LCP negotiation over a PPP link. This is done to negotiate the maximum receive unit (MRU), authentication mode, and magic number.
- ☐ C. In the Network phase, the two devices perform NCP negotiation. This is done to select and configure a network layer protocol and to negotiate network-layer parameters.
- ☒ D. After NCP negotiation is successful, the PPP link maintains the communication state and enters the Terminate phase.
- ☒ E. The PPP link can work in half-duplex or full-duplex mode.

18. Which of the following statements about SNMP versions are true?

- ☒ A. SNMPv3 packets can be authenticated and encrypted.
- ☐ B. SNMPv2c packets can be authenticated and encrypted.
- ☒ C. SNMPv2c adds two more operations to the five protocol operations defined in SNMPv1.
- ☐ D. SNMPv1 uses UDP as the transport layer protocol, whereas SNMPv2c and SNMPv3 use TCP as the transport layer protocol. Therefore, SNMPv1 is more reliable.

19. Typical network forwarding is based on routing tables. OpenFlow-capable switches forward packets based on flow tables. Which of the following statements correctly describe these two forwarding modes?

- ☒ A. A routing table has fixed fields. A device has only one public routing table.
- ☐ B. A flow table has fixed fields. A network device has only one flow table.
- ☒ C. According to a routing table, packets will be forwarded using the route to the destination network segment and with the longest mask.
- ☒ D. According to a flow table, packets can be forwarded based on only the MAC address and IP address.

20. Refer to the display startup command output shown in the figure. Which of the following statements are true?

```
<Huawei>display startup
MainBoard:
Startup system software:      flash:/AR2220E-V200R007C00SPC600.cc
Next startup system software: flash:/AR2220E-V200R007C00SPC600.cc
Backup system software for next startup: null
Startup saved-configuration file: flash:/vrpcfg.zip
Next startup saved-configuration file: flash:/backup.zip
Startup license file:         null
Next startup license file:    null
Startup patch package:        null
Next startup patch package:   null
Startup voice-files:          null
Next startup voice-files:     null
```

- ☒ A. The current VRP version file is the same as that used for next startup.
- ☐ B. The current VRP version file is different from that used for next startup.
- ☐ C. The current VRP configuration file is the same as that used for next startup.
- ☒ D. The current VRP configuration file is different from that used for next startup.

21. Typical network forwarding is based on routing tables. OpenFlow-capable switches forward packets based on flow tables. Which of the following statements correctly describe these two forwarding nodes?

- ☒ A. A routing table has fixed fields. A device has only one public routing table.
- ☐ B. A flow table has fixed fields. A network device has only one flow table.
- ☒ C. According to a routing table, packets will be forwarded using the route to the destination network segment and with the longest mask.
- ☐ D. According to a flow table, packets can be forwarded based on only the MAC address and IP address.

22. What are the ACL categories based on ACL rules?

- ☒ A. Basic ACL
- ☒ B. Advanced ACL
- ☒ C. Layer 2 ACL
- ☒ D. User ACL

23. Which of the following statements about the " ip route-static 10.0.2.2 255.255.255.255 10.0.12.2 preference 20" command is true?

- ☐ A. The destination network address of the route is 10.0.12.2/32.
- ☐ B. The preference of the route is 100.
- ☒ C. The route must exist in the routing table.
- ☒ D. The mask length of the destination network address of the route is 32 bits.

24. Which of the following network types are supported by OSPF?

- ☒ A. Broadcast
- ☒ B. Point-to-point (P2P)
- ☒ C. NBMA
- ☒ D. Point-to-multipoint (P2MP)

25. Which of the following statements are true about the TTL field in an IPv4 header?

- ☒ A. The TTL value decreases by 1 each time a packet passes through a Layer 3 device.
- ☒ B. The TTL field length is 8 bits.
- ☒ C. When a routing loop occurs, the TTL value can be used to prevent infinite packet forwarding.
- ☒ D. The TTL value is in the range from 0 to 255.

26. Which of the following methods can be used to add APs on an AC?

- ☒ A. Import APs when they are offline.
- ☒ B. Configure the AC to automatically discover APs.
- ☐ C. Manually confirm APs in the list of unauthorized APs.
- ☒ D. Add APs when they are online.

27. The network administrator has decided to configure link aggregation in the enterprise network. Which of the following represent advantages of link aggregation ?

- ☒ A. Load balancing.
- ☒ B. Improved bandwidth.
- ☒ C. Enhanced reliability.
- ☐ D. Improved security.

28. Which of the following application-layer protocols are based on TCP?

- ☐ A. Ping
- ☐ B. TFTP
- ☒ C. FTP
- ☒ D. HTTP packet

29. Which of the following modes are supported by link aggregation?

- ☒ A. Manual load balancing mode
- ☒ B. LACP mode
- ☐ C. Hybrid mode
- ☐ D. Manual active/standby mode

30. If the value of Length/Type in an Ethernet data frame is 0x8100, which of the following can be the payload of the data frame?

- ☒ A. ARP packets
- ☒ B. ICMP packets
- ☒ C. TCP datagrams
- ☒ D. UDP data

31. Refer to the following figure showing the configuration of a router. Which of the following statements about the configuration are true?

```
#
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 authentication mode of the domain named huawei is local authentication.
- ☒ B. The authorization mode of the domain named huawei is local authorization.
- ☒ C. No accounting scheme is used in the domain named huawei.
- ☐ D. If the user name huawei is used for authentication, the password must be 654321.

32. Refer to the following display ip routing-table command output on the router R1. Which of the following statements are true?

```
<R1>display ip routing-table
Route Flags: R - relay, D -
-----
Routing Tables: Public
  Destinations : 10

Destination/Mask    Proto
 10.0.0.0/8         Static
 10.0.2.2/32        Static
```

32. Which of the following are not main functions of routers ?

- ☒ A. Routers forward data packets based on source IP addresses.
- ☐ B. Routers learn routes through multiple routing protocols and add them to the routing table.
- ☒ C. Routers enable devices on the same network segment to communicate with each other.
- ☐ D. Routers forward data packets according to routing tables.

33. Link aggregation is a common technique in enterprise network. Which of the following description is the advantages of link aggregation?

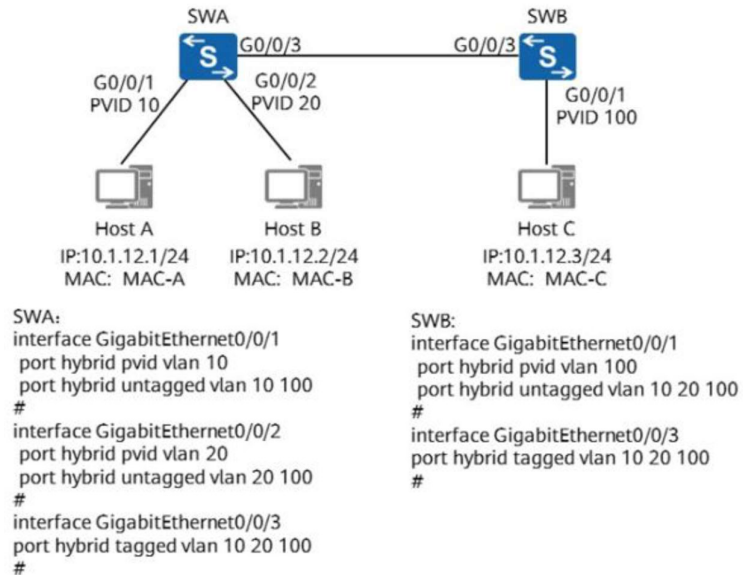
- ☒ A. Improves link bandwidth.
- ☒ B. Implements load sharing.
- ☒ C. Improves network reliability.
- ☐ D. Facilitates data copy for analysis.

34. According to the command output shown in the figure, which of the following statements are true?

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

- ☐ A. GigabitEthernet0/0/1 does not allow packets of VLAN 1 to pass through.
- ☒ B. GigabitEthernet0/0/1 allows packets of VLAN 1 to pass through.
- ☒ C. To configure GigabitEthernet0/0/1 as an access interface, first run the undo port trunk allow-pass vlan all command.
- ☒ D. To configure GigabitEthernet0/0/1 as an access interface, first run the undo port trunk allow-pass vlan 2 to 4094 command.

35. Refer to the following configurations of SWA and SWB. Which of the following mappings between MAC addresses, VLANs, and interfaces are true in MAC address tables of SWA and SWB?



MAC Address	VLAN	Port
MAC-A	10	GE0/0/1
MAC-B	20	GE0/0/2
MAC-C	100	GE0/0/3

☒ B. SWB:

MAC Address	VLAN	Port
MAC-A	10	GE0/0/3
MAC-B	20	GE0/0/3
MAC-C	100	GE0/0/1

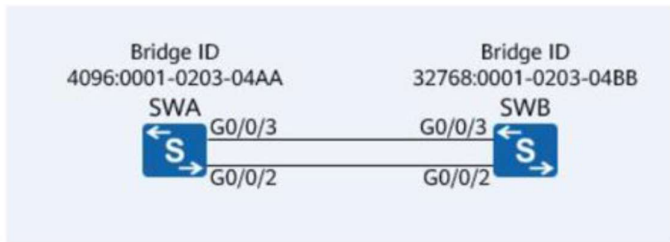
☐ C. SWB:

MAC Address	VLAN	Port
MAC-A	100	GE0/0/3
MAC-B	200	GE0/0/3
MAC-C	100	GE0/0/1

☐ D. SWA:

MAC Address	VLAN	Port
MAC-A	10	GE0/0/3
MAC-B	20	GE0/0/3

36. As shown in the figure, STP has been enabled on the two switches. Which of the following statements are truer



- ☒ A. The two ports of SWA are designated ports.
- ☐ B. The two ports of SWB are designated ports.
- ☒ C. G0/0/2 of SWA is in Forwarding state.
- ☒ D. G0/0/3 of SWA is in Forwarding state.
- ☒ E. G0/0/2 of SWB is in Forwarding state.

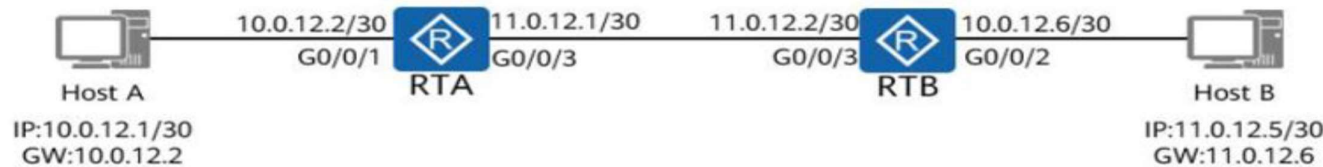
37. Which of the following planes does a network device have?

- ☒ A. Control plane
- ☒ B. Data plane
- ☒ C. Management plane
- ☐ D. Service plane

38. Which of the following parts compose SNMP?

- ☒ A. NMS
- ☐ B. Agent process
- ☒ C. Managed object
- ☒ D. Management Information Base (MIB)

39. On the network shown in the figure, which of the following commands can be used to enable host A to successfully ping host B?



- ☒ A. Router A : ip route-static 10.0.12.5 255.255.255.252 11.0.12.2
Router B : ip route-static 10.0.12.1 255.255.255.252 11.0.12.1
- ☒ B. Router A : ip route-static 0.0.0.0 0.0.0.0 11.0.12.2
Router B : ip route-static 0.0.0.0 0.0.0.0 11.0.12.1
- ☐ C. Router A : ip route-static 0.0.0.0 0.0.0.0 11.0.12.1
Router B : ip route-static 0.0.0.0 0.0.0.0 11.0.12.2
- ☐ D. Router A : ip route-static 10.0.12.5 255.255.255.252 11.0.12.1
Router B : ip route-static 10.0.12.1 255.255.255.252 11.0.12.2

40. A DHCP server in the enterprise network is being used to allocate IP addresses to hosts. An administrator discovers however that some hosts are obtaining IP addresses outside of the scope of the DHCP server's address pool. What are the possible reasons for this?

- ☒ A. Another DHCP server exists in the network and is allocating IP addresses to hosts that happen to be within a closer proximity than the authorized DHCP server.
- ☒ B. The hosts were unable to discover a DHCP server and therefore generated their own address in the 169.254.0.0 address range.
- ☐ C. The hosts were unable to discover a DHCP server and therefore generated their own address in the 127.254.0.0 address range.
- ☒ D. All addresses from the DHCP pool have been assigned.

41. Which of the following are true about the Ethernet data frame with the "Length/Type" field being 0x0806?

- ☒ A. The data frame is an Ethernet II frame.
- ☐ B. The data frame is an IEEE 802.3 frame.
- ☒ C. The destination MAC address of the data frame must be FFFF-FFFF-FFFF.
- ☒ D. The source MAC address of the data frame is definitely not FFFF-FFFF-FFFF.

42. In STP, which of the following items may affect the selection of the root switch?

- ☒ A. Switch priority.
- ☐ B. Switch port ID.
- ☐ C. Switch interface bandwidth.
- ☒ D. Switch MAC address.
- ☐ E. Switch IP address.

43. In the following figure, after OSPF is enabled on the two routers, the silent-interface s0/0/0 command is run on RTA. Given this, which of the following statements are true?



- ☒ A. RTA continues to receive, analyze, and process the OSPF packets sent by RTB.
- ☒ B. The OSPF neighbor relationship between the two routers goes down.
- ☐ C. The OSPF neighbor relationship between the two routers is not affected.
- ☒ D. RTA no longer sends OSPF packets.

44. Which of the following are not main functions of routers?

- ☒ A. Routers forward data packets based on source IP addresses.
- ☐ B. Routers learn routes through multiple routing protocols and add them to the routing table.
- ☒ C. Routers enable devices on the same network segment to communicate with each other.
- ☐ D. Routers forward data packets according to routing tables.

45. Refer to the following display interface command output on a device. Which of the following statements are true?

```
<Huawei>display interface GigabitEthernet 0/0/0
GigabitEthernet0/0/0 current state : UP
Line protocol current state : UP
Route Port, The Maximum Transmit Unit is 1000
Internet Address is 10.0.12.2/24
IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is 00e0-fc22-4fff
Port Mode: FORCE COPPER
Speed : 100, Loopback: NONE
Duplex: FULL, Negotiation: DISABLE
Mdi : AUTO
Last 300 seconds input rate 24 bits/sec, 0 packets/sec
Last 300 seconds output rate 24 bits/sec, 0 packets/sec
```

- ☒ A. The IP address of the interface is 10.0.12.2/24.
- ☐ B. The working rate of the interface is 1 Gbit/s.
- ☒ C. The MTU of the interface is 1000 bytes.
- ☒ D. The MAC address of the interface is 00e0-fc22-4fff.

46. Which of the following statements regarding single area OSPF are correct?

- ☐ A. An IP address needs to be configured on a loopback interface of each router before configuring an OSPF area.
- ☒ B. The value of an area can be from 0.0.0.0 to 255.255.255.255.
- ☒ C. A single area can be configured using any supported area number.
- ☒ D. All of the links of the network need to be advertised in Area 0.

46. Refer to the following figure showing the configuration of a router. Which of the following statements about the configuration are true

```
#
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 authentication mode of the domain named huawei is local authentication.
- ☒ B. The authorization mode of the domain named huawei is local authorization.
- ☒ C. No accounting scheme is used in the domain named huawei.
- ☐ D. If the user name huawei is used for authentication, the password must be 654321.

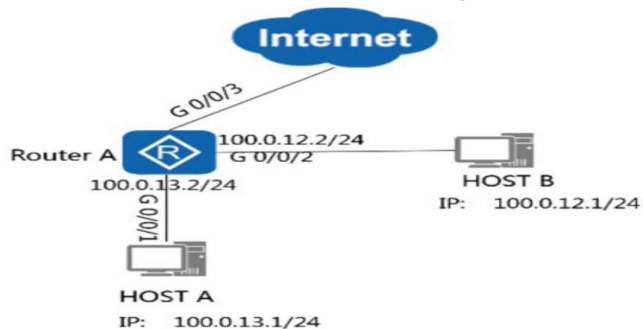
47. On Sx7 series switches, which of the following VLANs can be removed by using command "undo"?

- ☐ A. vlan 1.
- ☒ B. vlan 2.
- ☒ C. vlan 1024.
- ☒ D. vlan 4094.

48. Which of the following statements about IPv6 address configuration are true?

- ☐ A. IPv6 addresses can only be manually configured.
- ☒ B. IPv6 addresses support stateless autoconfiguration.
- ☒ C. DHCPv6 assignment is supported for IPv6 addresses.
- ☒ D. IPv6 addresses can be automatically configured in multiple modes.

50. On the network shown in the figure, which of the following configurations can enable host A to access the Internet but prevent host B from accessing the Internet?



☒ A. 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

```
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

interface GigabitEthernet0/0/3
traffic-filter outbound acl 2000
#

51. Which of the following types of packets are used for IPv6 stateless address autoconfiguration?

A. RA

B. RS

C. NA

D. NS

52. On Huawei devices, which of the following methods can be used in OSPF router ID selection?

- ☒ A. If a loopback interface is configured, the largest IP address of the loopback interface is selected as the router ID.
- ☒ B. If loopback interfaces are not configured, the largest IP address of an interface is selected as the router ID.
- ☒ C. A Huawei switch may use the largest IP address of VLANIF interfaces as the router ID.
- ☐ D. The default ID 127.0.0.1 is selected as the router ID.
- ☒ E. A valid router ID can be configured manually.

53. Which of the following statements are true about the OSPF neighbor status?

- ☒ A. The master/slave relationship of OSPF is formed in the ExStart state.
- ☒ B. The sequence number of DD packets is determined in the Exchange state.
- ☒ C. In the Exchange state, routers send DD packets that briefly describe link state information to each other to describe the content of the local link state database (LSDB).
- ☒ D. After LSDB synchronization is completed, the router state changes to Full.

54. Which of the following statements about the "S" field in the MPLS packet header are true?

- ☒ A. The field indicates whether there are other labels behind the current label. 0: Yes; 1: No.
- ☐ B. The field indicates whether there are other labels behind the current label. 1: Yes; 0: No.
- ☒ C. The "S" field exists in each MPLS packet header.
- ☐ D. The "S" field is 1 bit long in frame mode and 2 bits long in cell mode.

55. Which of the following MAC addresses cannot be used as the MAC addresses of host network adapters?

- ☐ A. 00-02-03-04-05-06
- ☒ B. 01-02-03-04-05-06
- ☐ C. 02-03-04-05-06-07
- ☒ D. 03-04-05-06-07-08

56. To enable the FTP server function on a router, set the user name and password to "huawei", and set the FTP root directory to "flash./dhcp/", which of the following commands must be configured?

- ☒ A. ftp server enable
- ☒ B. local-user huawei password cipher huawei
- ☒ C. local-user huawei ftp-directory flash:/dhcp/
- ☒ D. local-user huawei service-type ftp

57. Which of the following parts compose SNMP?

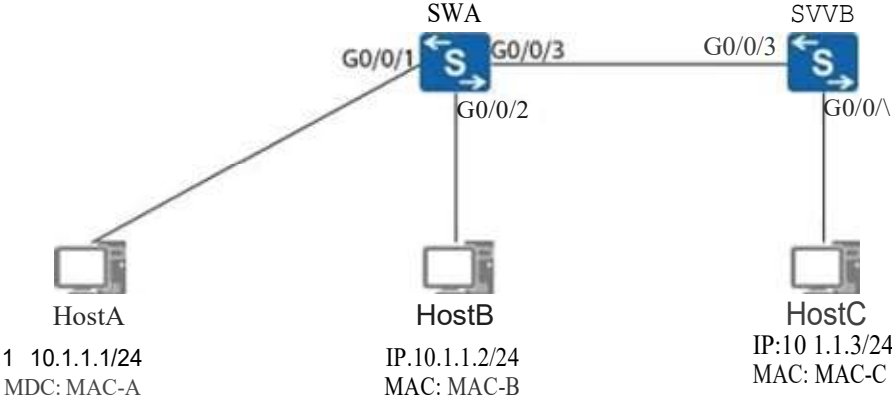
- ☒ A. NMS
- ☐ B. Agent process
- ☒ C. Managed object
- ☒ D. Management Information Base (MIB)

58. Which of the following network parameters can be allocated using DHCP?

- ☒ A. IP address
- ☒ B. Gateway address
- ☒ C. Address of the DNS server
- ☐ D. Operating system

59. Which of the following statements about SNMP versions are true?

60. Assuming that all hosts in the following figure can communicate with each other, which of the following statements are true?



- ☐ A. Three MAC addresses have been learnt on G0/0/3 of SWA.
- ☒ B. G0/0/3 of SWB learns two MAC addresses.
- ☐ C. G0/0/3 of SWA learns two MAC addresses.
- ☒ D. G0/0/3 of SWA learns one MAC address.

61. After receiving a Join Request packet from an AP during CAPWAP tunnel setup, an AC checks the validity of the AP. Which of the following authentication modes are supported by the AC?

- ☒ A. MAC address authentication
- ☒ B. SN authentication
- ☒ C. No authentication
- ☐ D. Password authentication

62. Which of the following parameter settings must be consistent on two devices for an OSPF adjacency to be established?

- ☐ A. Router Priority
- ☒ B. Router Dead Interval
- ☒ C. Router ID
- ☐ D. Area ID

63. Which of the following parameters must be considered during root port selection in STP?

- ☒ A. Cost to the root switch.
- ☒ B. Port priority.
- ☒ C. Slot ID of the port, such as G0/0/1.
- ☐ D. Port MAC address.
- ☐ E. Port duplex mode.

64. On the network shown in the figure, SWA and Router A are connected through two links. The two links are aggregated in manual load balancing mode, and the number of the aggregated interface is 1. If the aggregated link needs to tag outgoing packets with VLAN 100 and the trunk link needs to be configured on SWA, which of the following configurations need to be performed on SWA?



- ☒ A. interface Eth-Trunk1
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 Vlanif100
ip address 10.0.12.1 255.255.255.0
#
- ☐ C. interface Eth-Trunk1
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
#
- ☒ D. interface Eth-Trunk1
ip address 10.0.12.1 255.255.255.0
#

65. Which of the following statements about OSPF DD packets *and* LSAs are true?

- ☐ A. A DD packet contains detailed LSA information.
- ☐ B. A DD packet contains only LSA headers.
- ☒ C. An LSA header uniquely identifies an LSA.
- ☒ D. An LSA header is only a part of an LSA.

66. Which of the following routing protocols are dynamic routing protocols?

- ☐ A. Static routing
- ☐ B. Direct routing
- ☒ C. OSPF
- ☒ D. BGP

67. An ACL rule is as follows. Which of the following IP addresses can be matched by the permit rule*
rule S permit ip source 10.0.1.0 0.0.254.255

- ☒ A. 10.0.1.2
- ☐ B. 10.0.2.3
- ☒ C. 10.0.3.4
- ☐ D. 10.0.4.5

68. What are the functions of OSPF hello packets ?

- ☒ A. Discover neighbors.
- ☐ B. Update LSAs.
- ☒ C. Maintain OSPF neighbor relationships.
- ☐ D. Synchronize the LSDB.

69. Which of the following route entries can be aggregated into 10.0.0.24 /29 ?

- ☒ A. 10.0.0.25/30
- ☐ B. 10.0.0.23/30
- ☒ C. 10.0.0.26/30
- ☐ D. 10.0.0.22/30

70. An ACL rule is as follows. Which of the following IP addresses can be matched by the permit rule*
rule 5 permit ip source 10.1.1.0 255.0.254.255

- ☒ A. 9.1.1.1
- ☐ B. 8.2.2.1
- ☐ C. 7.1.2.1
- ☒ D. 6.1.3.1

71. Which of the following statements are used to correctly describe the Network Functions Virtualization (NFV) architecture?

- ☒ A. The Virtualized Infrastructure Manager (VIM) is responsible for managing the virtualized infrastructure.
- ☒ B. The Virtualized Network Function Manager (VNFM) is responsible for lifecycle management of VNFs.
- ☒ C. The NFV Orchestrator (NFVO) is responsible for service orchestration.
- ☒ D. Management and orchestration (MANO) consists of the NFVO, VNFM, and VIM.

72. Refer to the following figure showing the configuration of a router. Which of the following statements about the configuration are true?

```
#
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 authentication mode of the domain named huawei is local authentication.
- ☒ B. The authorization mode of the domain named huawei is local authorization.
- ☒ C. No accounting scheme is used in the domain named huawei.
- ☐ D. If the user name huawei is used for authentication, the password must be 654321.

73. Which of the following statements about the routing table shown in the figure are true?

```
<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 next hop in the route to the destination network 10.0.3.3/32 is not directly connected. Therefore, the local router does not forward data packets destined for 10.0.3.3.
- ☒ B. The local router forwards data packets destined for 10.0.3.3 from Ethernet0/0/0.
- ☒ C. The local router forwards data packets destined for 10.0.2.2 from Ethernet0/0/0.
- ☒ D. The local router forwards data packets destined for 10.0.12.1 from Ethernet0/0/0.

74. What are the advantages of using DHCP to allocate IP addresses*

- ☐ A. DHCP provides heavy workload and is difficult to manage.
- ☒ B. DHCP can prevent IP address conflicts.
- ☒ C. IP addresses can be reused.
- ☒ D. If the configuration information changes, for example, the DNS server address changes, the administrator only needs to modify the configuration information on the DHCP server, facilitating unified management.

75. Which of the following parameters are used for STP calculation on a switching network running STP?

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

76. Which of the following types of packets are used for IPv6 stateless address autoconfiguration?

- ☒ A. RA
- ☒ B. RS
- ☒ C. NA
- ☒ D. NS

77. Which of the following statements are true about the TTL field in an IPv4 header?

- ☒ A. The TTL value decreases by 1 each time a packet passes through a Layer 3 device.
- ☒ B. The TTL field length is 8 bits.
- ☒ C. When a routing loop occurs, the TTL value can be used to prevent infinite packet forwarding.
- ☒ D. The TTL value is in the range from 0 to 255.

78. Which of the following are features of the OSPF protocol?

- ☐ A. Routing loops are likely to occur.
- ☒ B. Triggered update is supported.
- ☐ C. The shortest path is calculated based on the number of hops.
- ☒ D. Area division is supported.

79. What packet types are included in DHCP?

- ☒ A. DHCP Discover packet
- ☒ B. DHCP Offer packet
- ☒ C. DHCP Request packet
- ☐ D. DHCP Rollover packet

80. Which of the following descriptions regarding the STP forwarding state is incorrect?

- ☐ A. A port in a forwarding state can receive BPDU.
- ☐ B. A port in a forwarding state does not learn the source MAC address of a frame.
- ☐ C. A port in a forwarding state can forward frames.
- ☒ D. A port in a forwarding state can send BPDU.

81. Which of the following statements are used to correctly describe the Network Functions Virtualization (NFV) architecture?

- ☒ A. The Virtualized Infrastructure Manager (VIM) is responsible for managing the virtualized infrastructure.
- ☒ B. The Virtualized Network Function Manager (VNFM) is responsible for lifecycle management of VNFs.
- ☒ C. The NFV Orchestrator (NFVO) is responsible for service orchestration.
- ☒ D. Management and orchestration (MANO) consists of the NFVO, VNFM, and VIM.

82. Which of the following application- layer protocols are based on TCP

- ☐ A. Ping
- ☐ B. TFTP
- ☒ C. FTP
- ☒ D. HTTP packet

83. Which of the following elements are included in a routing table?

- ☒ A. Destination/Mask
- ☒ B. Protocol
- ☒ C. Cost
- ☒ D. Next-hop address
- ☒ E. Interface

84. An administrator currently manages AR2200 devices in the network through a single password, however the company wishes to introduce another two administrators and provide unique user credentials and privilege levels for telnet access to the network devices. What action can be taken?

- ☒ A. Configure three users under the AAA-view, and assign each a different password.
- ☒ B. The authentication mode must be changed to AAA.
- ☒ C. Each administrator must be assigned a privilege level.
- ☐ D. A public IP address must be assigned to each user for telnet access.

85. Which of the following commands can be used to query OSPF configurations of a device?

☒ A. display current-configuration

☒ B. In the OSPF protocol view:
display this

☐ C. dis ip routing-table

☐ D. display ospf peer

86. Which of the following are Layer 2ACLs?

☐ A. rule 10 permit l2-protocol arp

☒ B. rule 15 permit vlan-id 100

☒ C. rule 20 permit source-mac 0203-0405-0607

☐ D. rule 25 permit source 192.168.1.1 0.0.0.0

87. Which of the following parameter settings must be consistent on two devices for an OSPF adjacency to be established?

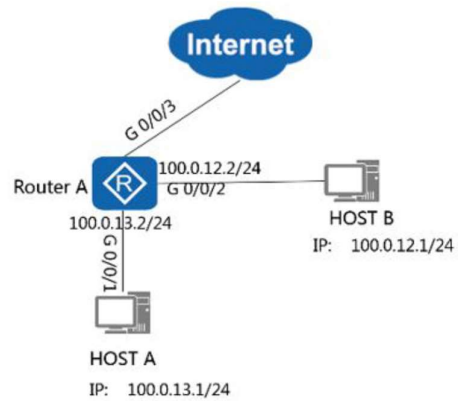
☐ A. Router Priority

☒ B. Router Dead Interval

☐ C. Router ID

☒ D. Area ID

88. On the network shown in the figure, which of the following configurations can enable host A to access the Internet but prevent host B from accessing the Internet?



- ☒ A. 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

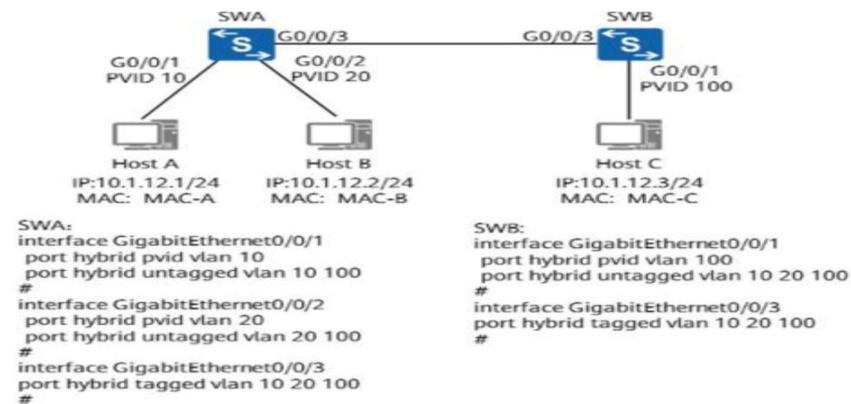
interface GigabitEthernet0/0/3
traffic-filter outbound acl 2000
#
- ☒ B. acl number 2000
rule 5 permit source 100.0.13.0 0.0.0.255
rule 10 deny source 100.0.12.0 0.0.0.255

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

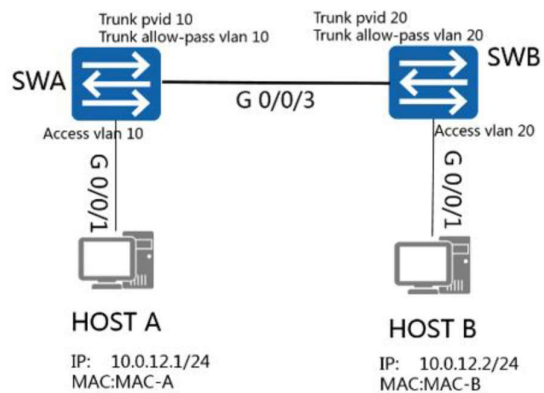
interface GigabitEthernet0/0/3
traffic-filter outbound acl 2000
#

89. Which of the following statements about configurations of SWA and SWB are true?



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

90. On the network shown in the figure, the ports connecting switch A and switch B to hosts belong to VLAN 10 and VLAN 20 respectively. The ports through which the two switches are interconnected are trunk ports, and the PVIDs of the ports are 10 and 20, respectively. Which of the following statements are true?



- ☐ A. Host A and host B belong to different VLANs and cannot ping each other.
- ☒ B. Host A and host B can ping each other.
- ☒ C. When the data frames sent by the hosts are forwarded between the switches, the frames are untagged.
- ☐ D. ARP requests from host A cannot be forwarded to host B.

91. Which of the following MAC addresses can be used as the MAC addresses of host network adapters?

- ☐ A. 00-02-03-04-05-06
- ☒ B. 01-02-03-04-05-06
- ☐ C. 02-03-04-05-06-07
- ☒ D. 03-04-05-06-07-08

92. Which of the following port states are included in Rapid Spanning Tree Protocol (RSTP)?

- ☒ A. Forwarding
- ☒ B. Learning
- ☒ C. Discarding
- ☐ D. Listening

93. The PPPoE session establishment process can be divided into which stages?

- ☒ A. Discovery stage.
- ☐ B. DHCP stage.
- ☒ C. PPPoE Session stage.
- ☐ D. PPP connecting stage.

94. On Huawei devices, which of the following methods can be used in OSPF router ID selection*

- ☒ A. If a loopback interface is configured, the largest IP address of the loopback interface is selected as the router ID.
- ☒ B. If loopback interfaces are not configured, the largest IP address of an interface is selected as the router ID.
- ☒ C. A Huawei switch may use the largest IP address of VLANIF interfaces as the router ID.
- ☐ D. The default ID 127.0.0.1 is selected as the router ID.
- ☒ E. A valid router ID can be configured manually.

95. Refer to the output of the display current-configuration configuration ospf and display ospf peer commands on the router R1. Which of the following statements are false?

```
<R1>display current-configuration configuration ospf
#
ospf 1 router-id 10.0.1.1
 area 0.0.0.0
   network 10.0.12.0 0.0.0.3
   network 10.0.12.0 0.0.0.255
#
return
<R1>display ospf peer

OSPF Process 1 with Router ID 10.0.12.1
Neighbors

Area 0.0.0.0 interface 10.0.12.1(GigabitEthernet0/0/0)'s neighbors
Router ID: 10.0.2.2      Address: 10.0.12.2
State: Full Mode:Nbr is Slave Priority: 1
DR: 10.0.12.2 EDR: 10.0.12.1 MTU: 0
Dead timer due in 30 sec
Retrans timer interval: 5
Neighbor is up for 00:01:48
Authentication Sequence: [ 0 ]
```

- ☐ A. It can be determined that R1 is faulty because the incorrect router ID has been configured.
- ☐ B. R1's router ID is 10.0.1.1.
- ☒ C. R1's router ID is 10.0.12.1.
- ☒ D. Area authentication is enabled on R1.

96. Which of the following statements are incorrect

- ☐ A. The preferences for each static routes entry can be different.
- ☐ B. By default, OSPF maintains preference over RIP.
- ☒ C. The greater the cost, the better the route is.
- ☒ D. For those routes to the same destination on VRP platform, the route with a higher preference value is more preferred over the route with a lower preference value.

97. Which of the following modes are supported by link aggregation?

- ☒ A. Manual load balancing mode
- ☒ B. LACP mode
- ☐ C. Hybrid mode
- ☐ D. Manual active/standby mode

98. The network administrator has decided to configure link aggregation in the enterprise network Which of the following represent advantages of link aggregation*

- ☒ A. Load balancing.
- ☒ B. Improved bandwidth.
- ☒ C. Enhanced reliability.
- ☐ D. Improved security.

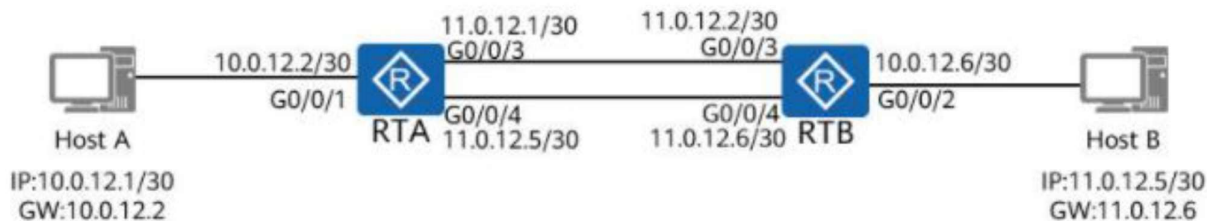
99. What are the advantages of OSPF?

- ☐ A. OSPF supports Classless Inter-Domain Routing (CIDR).
- ☐ B. OSPF can load balance traffic among equal-cost routes.
- ☒ C. OSPF supports area partition.
- ☒ D. OSPF supports packet authentication.

100. Which of the following fields exist in both IPv6 and IPv4 packet headers?

- ☒ A. Source Address
- ☒ B. Destination Address
- ☒ C. Version
- ☐ D. Next Header

101. On the network shown in the figure, when planning traffic, the network administrator requires that the data packets sent from host A to host B pass through G0/0/3 on the router, and the packets sent from host B to host A pass through G0/0/4 on the router. Which of the following commands can be used to meet this requirement?



- ☒ A. Router A : ip route-static 10.0.12.5 255.255.255.252 11.0.12.2
Router B : ip route-static 10.0.12.1 255.255.255.252 11.0.12.5
- ☐ B. Router A : ip route-static 10.0.12.5 255.255.255.252 11.0.12.6
Router B : ip route-static 10.0.12.1 255.255.255.252 11.0.12.1
- ☒ C. Router A : ip route-static 0.0.0.0 0.0.0.0 11.0.12.2
Router B : ip route-static 0.0.0.0 0.0.0.0 11.0.12.5
- ☐ D. Router A : ip route-static 0.0.0.0 0.0.0.0 11.0.12.6
Router B : ip route-static 0.0.0.0 0.0.0.0 11.0.12.1

102. Which of the following are basic parameters for configuring a static route ?

- ☒ A. Destination network
- ☒ B. Next-hop IP address
- ☒ C. Outbound interface
- ☐ D. MAC address of the outbound interface

103. Refer to the following output of the display ospf interface verbose command on the router R1. Which of the following statements are true?

```
<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. R1's router ID is 10.0.1.1.
- ☒ B. R1 is the BDR.
- ☒ C. The cost of GigabitEthernet0/0/0 is 1.
- ☐ D. The DR priority of GigabitEthernet0/0/0 is 10.

104. Which of the following operations are mandatory to restore the factory default settings of an AR2200 router?

- ☒ A. Resetting saved configurations
- ☐ B. Clearing the current configuration
- ☒ C. Restarting the AR2200 router
- ☒ D. Specifying the configuration file for next startup

105. As shown in the following figure the router Loses a sub-interface as the gateway of the host and the IP address of the gateway is 10.0.12.2. Which of the following commands can be used to meet this requirement?



- ☒ A. interface GigabitEthernet0/0/0.20
dot1q termination vid 20
ip address 10.0.12.2 255.255.255.0
arp broadcast enable
#
- ☒ B. interface GigabitEthernet0/0/0.10
dot1q termination vid 20
ip address 10.0.12.2 255.255.255.0
arp broadcast enable
#
- ☐ C. interface GigabitEthernet0/0/0.20
dot1q termination vid 10
ip address 10.0.12.2 255.255.255.0
arp broadcast enable
#
- ☐ D. interface GigabitEthernet0/0/0.10
dot1q termination vid 10
ip address 10.0.12.2 255.255.255.0

106. Which of the following statements about the "S" field in the MPLS packet header are true*

- ☒ A. The field indicates whether there are other labels behind the current label. 0: Yes; 1: No.
- ☐ B. The field indicates whether there are other labels behind the current label. 1: Yes; 0: No.
- ☒ C. The "S" field exists in each MPLS packet header.
- ☐ D. The "S" field is 1 bit long in frame mode and 2 bits long in cell mode.

107. Which of the following statements about IPv6 anycast addresses are true?

- ☐ A. Packets destined for an anycast address are sent to the nearest interface identified based on the routing distance.
- ☒ B. Anycast and unicast addresses use the same address space.
- ☒ C. IPv6 anycast addresses provide redundancy functions for services.
- ☒ D. IPv6 anycast addresses implement load balancing for services.

108. Which of the following statements about IPv6 address configuration are true ?

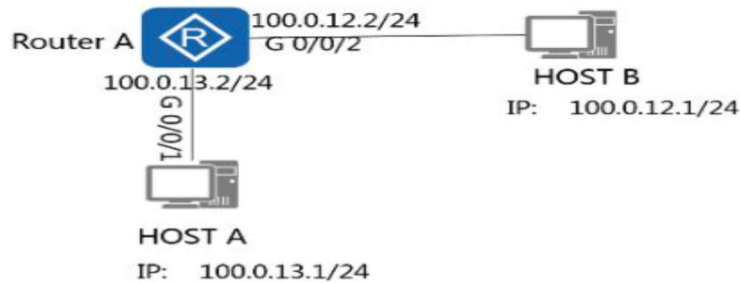
- ☐ A. IPv6 addresses can only be manually configured.
- ☒ B. IPv6 addresses support stateless autoconfiguration.
- ☒ C. DHCPv6 assignment is supported for IPv6 addresses.
- ☒ D. IPv6 addresses can be automatically configured in multiple modes.

109. Typical network forwarding is based on routing tables. OpenFlow-capable switches forward packets based on flow tables.

Which of the following statements correctly describe these two forwarding modes?

- ☒ A. A routing table has fixed fields. A device has only one public routing table.
- ☐ B. A flow table has fixed fields. A network device has only one flow table.
- ☒ C. According to a routing table, packets will be forwarded using the route to the destination network segment and with the longest mask.
- ☒ D. According to a flow table, packets can be forwarded based on only the MAC address and IP address.

50. In the network shown in the figure, which of the following configurations can forbid host A to access the HTTP service of host B and forbid host B to access the FTP service of host A?



- ☒ A. `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-port 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-port eq ftp`
`#`
`interface GigabitEthernet0/0/1`
`traffic-filter inbound acl 3000`
`#`
`interface GigabitEthernet0/0/2`
`traffic-filter inbound acl 3001`
`#`

```
interface GigabitEthernet0/0/1
 traffic-filter outbound acl 3000
#
interface GigabitEthernet0/0/2
 traffic-filter outbound 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 outbound acl 3000
#
interface GigabitEthernet0/0/2
 traffic-filter outbound acl 3001
#
```
- ☐ D.

```
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
#
```

111. On Huawei AR G3 Series routers, Which authentication modes does AAA support?

- ☒ A. None.
- ☒ B. Local.
- ☒ C. Radius.
- ☐ D. 802.1X.

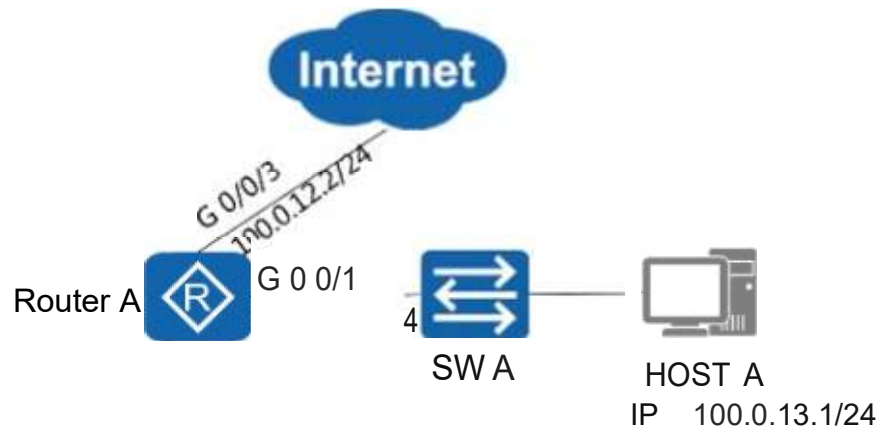
112. Refer to the following display interface command output on a device. Which of the following statements are true?

!1 A. The Ip address of the interface is 10.0.12.2/24.

```
<Huawei>display interface GigabitEthernet 0/0/0
GigabitEthernet0/0/0 current state : UP
Line protocol current state : UP
Route Port, The Maximum Transmit Unit is 1000
Internet Address is 10.0.12.2/24
IP Sending Frames' Format is PKTFMT_ETHNT_2, Hardware address is 00e0-fc22-4fff
Port Mode: FORCE COPPER
Speed : 100, Loopback: NONE
Duplex: FULL, Negotiation: DISABLE
Mdi : AUTO
Last 300 seconds input rate 24 bits/sec, 0 packets/sec
Last 300 seconds output rate 24 bits/sec, 0 packets/sec
```

- ☒ A. The IP address of the interface is 10.0.12.2/24.
- ☐ B. The working rate of the interface is 1 Gbit/s.
- ☒ C. The MTU of the interface is 1000 bytes.
- ☒ D. The MAC address of the interface is 00e0-fc22-4fff.

113. On the network shown in the following figure, it is required that Router A reject OSPF and ICMP packets received on G0/0/1. Which of the following configurations meet this requirement?



- ☒ A. acl number 3000
rule 5 deny ospf
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-filter inbound acl 2000
#
- ☒ D. acl number 3000
rule 5 deny 89
rule 10 deny icmp

interface GigabitEthernet0/0/1
traffic-filter inbound acl 3000
#

114. By referring to the routing table of the router R1 shown in the figure, which of the following statements are truer

```
<R1>display ip routing-table
```

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

```
-----
```

```
Routing Tables: Public
```

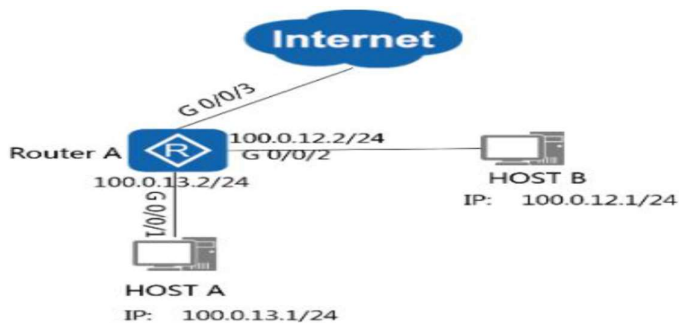
```
Destinations : 13
```

```
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 router discards the data packets destined for 11.0.0.0/8.
- ☒ B. The router forwards the data packets destined for 12.0.0.0/8.
- ☒ C. The router forwards the data packets destined for 11.0.0.0/8 from GigabitEthernet0/0/0.
- ☐ D. The router forwards the data packets destined for 12.0.0.0/8 from Ethernet0/0/0.

115. On the network shown in the figure, which of the following configurations can enable host A to access the Internet but prevent host B from accessing the internet?



☒ A. 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
#

☒ 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

interface GigabitEthernet0/0/3
traffic-filter outbound acl 2000
#

116. Which of the following user authentication modes are supported on a WLAN*

- ☒ A. 802.1X authentication
- ☐ B. MAC address authentication
- ☒ C. Portal authentication
- ☒ D. RADIUS authentication

116. Virtualization is the foundation of Network Function Virtualization (NFV). Which of the following statements correctly describe virtualization ?

- ☒ A. Multiple VMs can concurrently run on a single physical server.
- ☒ B. VMs on the same physical server are isolated from each other.
- ☒ C. VMs are decoupled from hardware and can be migrated between servers.
- ☐ D. VMs run on the same operating system and are separated by namespaces.

117. Which of the following are Layer 2 ACLs?

- ☐ A. rule 10 permit l2-protocol arp
- ☒ B. rule 15 permit vlan-id 100
- ☒ C. rule 20 permit source-mac 0203-0405-0607
- ☐ D. rule 25 permit source 192.168.1.1 0.0.0.0

118. Which of the following information is relevant to the data transmission rate of an Eth-Trunk in manual mode?

- ☒ A. Bandwidth of its member interfaces
- ☐ B. Whether IP addresses are configured for its member interfaces
- ☐ C. Whether its member interfaces reside on a public or private network
- ☒ D. Quantity of member interfaces

119. Which of the following are not main functions of routers ?

- ☒ A. Routers forward data packets based on source IP addresses.
- ☐ B. Routers learn routes through multiple routing protocols and add them to the routing table.
- ☒ C. Routers enable devices on the same network segment to communicate with each other.
- ☐ D. Routers forward data packets according to routing tables.

120. Which of the following methods can be used to add APs on an AC?

- ☐ A. Import APs when they are offline.
- ☒ B. Configure the AC to automatically discover APs.
- ☐ C. Manually confirm APs in the list of unauthorized APs.
- ☒ D. Add APs when they are online.

121. Which of the following network parameters can be allowed using DHCP?

- ☒ A. IP address
- ☒ B. Gateway address
- ☒ C. Address of the DNS server
- ☐ D. Operating system

122. If the IPv4 address of a host on a LAN is 192.168.1.1/30, the host will process IP packets with specific destination IP addresses. Which of the following IP addresses may be the destination IP addresses?

☒ A. 192.168.1.1

☐ B. 192.168.1.2

☒ C. 192.168.1.3

☒ D. 255.255.255.255

123. Which of the following frequency bands are supported by IEEE 802.11 n?

☒ A. 2.4 GHz

☐ B. 2.5 GHz

☒ C. 5 GHz

☐ D. 6 GHz

124. Which of the following statements about collision domains and broadcast domains are correct?

- ☒ A. Devices connected to the same Hub form a collision domain.
- ☒ B. Devices connected to the same hub form a broadcast domain.
- ☐ C. Devices connected to the same bridge form a collision domain.
- ☒ D. Devices connected to the same bridge form a broadcast domain.
- ☐ E. Devices connected to the same router form a broadcast domain.

125. After receiving a Join Request packet from an AP during CAPWAP tunnel setup, an AC checks the validity of the AP. Which of the following authentication modes are supported by the AC?

- ☒ A. MAC address authentication
- ☒ B. SN authentication
- ☒ C. No authentication
- ☐ D. Password authentication

126. Which of the following IEEE 802.11 standards support the 5 GHz frequency band?

☒ A. 802.11a

☒ B. 802.11n

☒ C. 802.11ax

☐ D. 802.11g

127. Which of the following port status may exist on an STP-enabled switch?

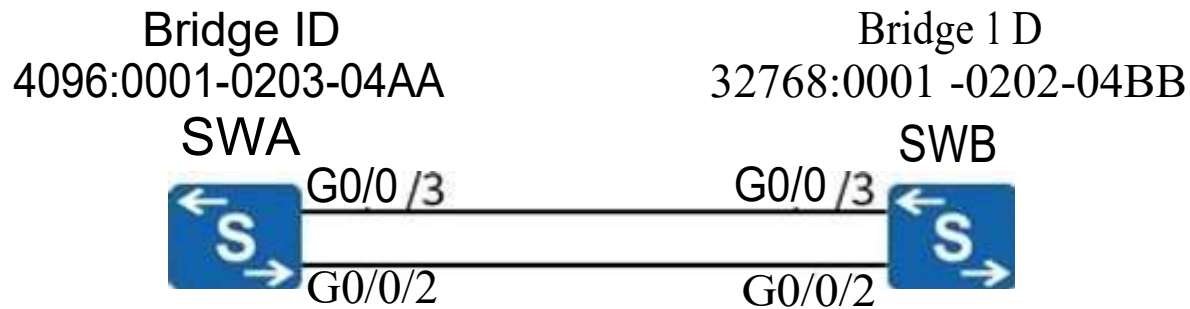
☒ A. Forwarding

☒ B. Listening

☒ C. Discarding

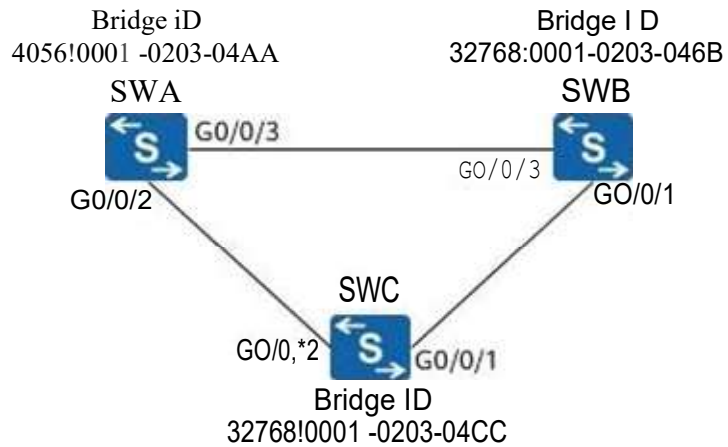
☐ D. Disabled

128. SWA and SWB run RSTP. Which of the following statements are true?



- ☒ A. G0/0/3 of SWA is a designated port.
- ☐ B. G0/0/3 of SWB is a backup port.
- ☐ C. G0/0/3 of SWB is an alternate port.
- ☒ D. G0/0/2 of SWA is a designated port.

130. On the switching network shown in the figure, all switches run STP and other configurations of the switches retain factory settings. When the network topology is stable, which of the following statements are true?



- ☒ A. SWA is the root bridge on the network.
- ☐ B. SWB is the root bridge on the network.
- ☒ C. G0/0/1 and G0/0/3 on SWB are in Forwarding state.
- ☐ D. G0/0/1 and G0/0/2 on SWC are in Forwarding state.

131. The PPPoE session establishment process can be divided into which stages?

- ☒ A. Discovery stage.
- ☐ B. DHCP stage.
- ☒ C. PPPoE Session stage.
- ☐ D. PPP connecting stage.

132. An administrator wants to update the VRP software version on a Huawei router. Which of the following methods are available?

- ☒ A. The administrator configures a Huawei router as an FTP client and transmits the VRP software through FTP.
- ☐ B. The administrator configures a Huawei router as an FTP server and transmits the VRP software through FTP.
- ☐ C. The administrator configures a Huawei router as a TFTP server and transmits the VRP software through TFTP.
- ☒ D. The administrator configures a Huawei router as a TFTP client and transmits the VRP software through TFTP.

133. Which of the following fields in an IPv4 header are related to fragmentation ?

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

134. Which of the following statements are used to correctly describe the Network Functions Virtualization (NFV) architecture?

- ☒ A. The Virtualized Infrastructure Manager (VIM) is responsible for managing the virtualized infrastructure.
- ☒ B. The Virtualized Network Function Manager (VNFM) is responsible for lifecycle management of VNFs.
- ☒ C. The NFV Orchestrator (NFVO) is responsible for service orchestration.
- ☒ D. Management and orchestration (MANO) consists of the NFVO, VNFM, and VIM.

135. Refer to the following display ip routing-table command output on the router R1. Which of the following statements are true?

```
(R1)display ip routing-table
Route flags: R - relay, D - download to fib
```

```
Routing Tables: Public
  Destinations : 10          Routes : 10
```

Destination/Wask	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	70	0	RD	10.0.21.2	Ethernet0/0/1

- ☒ A. The outbound interface from R1 to 10.0.0.1 is Ethernet0/0/0.
- ☐ B. The outbound interface from R1 to 10.0.0.1 is Ethernet0/0/1.
- ☐ C. The outbound interface from R1 to 10.0.2.2 is Ethernet0/0/0.
- ☒ D. The outbound interface from R1 to 10.0.2.2 is Ethernet0/0/1.

136. Which of the following statements are true about the TTL field in an IPv4 header?

- ☒ A. The TTL value decreases by 1 each time a packet passes through a Layer 3 device.
- ☒ B. The TTL field length is 8 bits.
- ☒ C. When a routing loop occurs, the TTL value can be used to prevent infinite packet forwarding.
- ☒ D. The TTL value is in the range from 0 to 255.

137. To implement network-layer functions on a VLANIF interface, which of the following need to be configured on the interface?

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

138. Which of the following port states are included in Rapid Spanning Tree Protocol (RSTP)?

☒ A. Forwarding

☒ B. Learning

☒ C. Discarding

☐ D. Listening