

Legend:

Почти уверенный ответ

Не уверенный ответ

Ответ не проверялся

FALSE / TRUE

1. HSB service packets can be sent and retransmitted to prevent undetected HSB channel interruption.

True

False

2. iMaster NCE-Campus can manage Huawei network devices through NETCONF and third-party devices through SNMP.

True

False

3. When two devices with the same priority preempt the master, the device which the interface has a smaller IP address should be selected as the master.

True

False

4. A DHCP relay agent forwards DHCP messages between a DHCP server and clients and helps the DHCP server to dynamically allocate network parameters to the clients.

True

False

5. When OSPFv3 runs on a Huawei router, the router automatically selects an interface address as the Router ID of the OSPFv3 process.

True

False

6. SSH uses an asymmetric encryption algorithm, either AES or DES, to secure data transmission, and uses HMAC to check data integrity.

True

False

7. If a modular switch can use only cluster switch system (CSS) cards on MPUs to set up a CSS connection, it means that the modular switch uses CSS2 technology.

True

False

8. IGMPv1 defines a mechanism to select a querier when there are multiple routers on a shared network.

True

False

9. BGP routers establish peer relationships using UDP.

True

False

10. In the VRP, by default, the routes imported by BGP will be automatically summarized.

True

False

11. A route-policy can have multiple nodes, which are identified by sequence numbers. The operator between nodes with different sequence numbers is OR.

True

False

12. By default, the OSPF interface cost depends on the interface bandwidth and is calculated using the following formula: Bandwidth-Reference/Bandwidth. The interface cost can only be calculated by OSPF and cannot be manually modified.

True

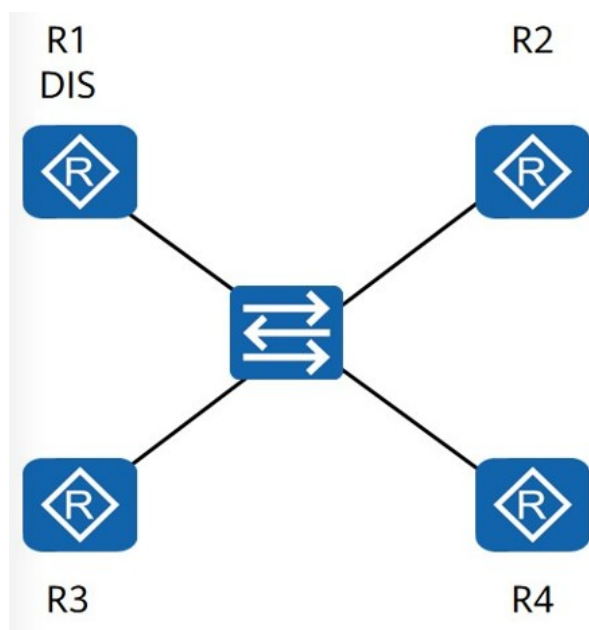
False

13. In OSPF, DR and BDR elected in a broadcast network listen on both 224.0.0.5 and 224.0.0.6.

True

False

14. See the following figure. Four routers on the same LAN run IS-IS, and R1 is the DIS. In this case, R2, R3, and R4 establish adjacencies with R1; however, R2, R3, and R4 do not establish adjacencies with each other.



True

False

15. After receiving a service packet, a modular switch sequentially sends the packet to the upstream and downstream interface boards for processing before sending the packet out from an interface on the downstream interface board.

True

False

16. For the active and standby ACs working in dual-link HSB mode, a larger priority value indicates a higher priority.

True

False

17. One VRRP virtual router can only have the virtual IP address.

True

False

18. A typical NetStream system consists of two parts: a NetStream data exporter (NDE) and NetStream Collector (NSC).

True

False

19. IPv6 link-local addresses can be generated using stateless address autoconfiguration.

True

False

20. A DDoS attack indicates that an attacker controls many botnet hosts to send a large number of constructed attack packets. As a result, the attacked device rejects request of authorized users.

True

False

21. IGMPv3 not only supports IGMPv1 General Query and IGMPv2 Group-Specific Query, and also IGMPv3 Source/Group-Specific Query.

True

False

22. To inject IGP routes into BGP routes, you can only use the network command.

True

False

23. EVPN is a VPN technology that provides only Layer 2 network interconnection.

True

False

24. On the VRP platform, when OSPF routes are imported to the IS-IS routing table, their cost value will be set to 16 by default if no cost value is specified.

True

False

25. When the ospf cost and bandwidth-reference commands are configured at the same time, the cost on the interface takes the bandwidth-reference configuration.

True

False

26. To prevent inter-area routing loops, OSPF does not allow advertising routing information between two non-backbone areas and allows advertising routing information only within an area or between the backbone area and a non-backbone area. Therefore, each ABR must be connected to the backbone area.

True

False

27. A forwarding information database (FIB) can directly guide packet forwarding on a router.

True

False

28. After the HSB group is enabled for the ACs, if an online AP on the active AC is added offline to the standby AC, the AP status appears as fault on the standby AC. In this case, you need to run the undo hsb enable command in the HSB group view on the standby AC to disable HSB, and then run the hsb enable command to enable HSB. Information on the active AC is then backed up to the standby AC, ensuring information consistency between the active and standby ACs. The AP status on the standby AC will be displayed as standby.

True

False

29. The native AC function allows an agile switch to integrate AC capabilities, achieving wired and wireless convergence. The agile switch centrally manages wired and wireless service traffic.

True

False

30. When the virtual router responds to ARP Request packets, the actual MAC address of the master router is used.

True

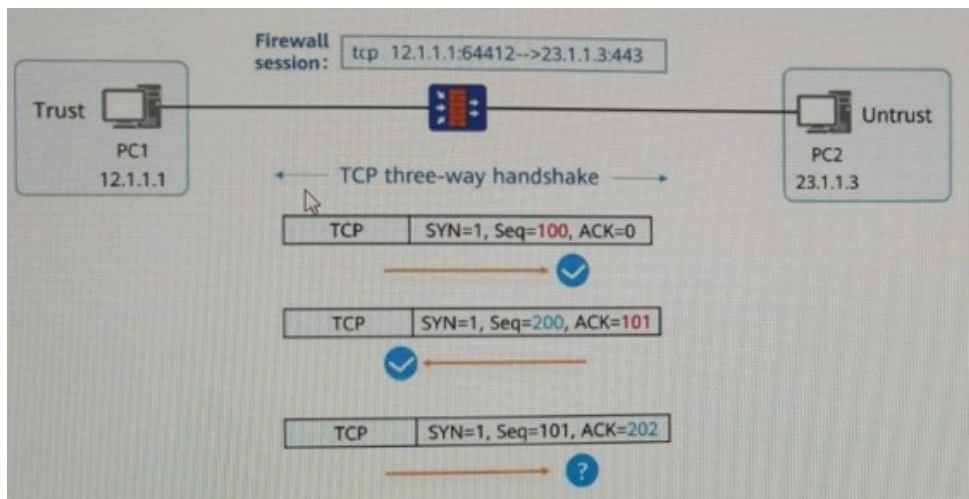
False

31. IPv6 link local addresses can be generated using stateless address autoconfiguration.

True

False

32. As shown in the figure, the stateful inspection firewall forwards the packet because the packet matches the session status of the firewall.



True

False

33. An edge port in RSTP can directly enter the Forwarding state without waiting for the forwarding delay. If an edge port receives a BPDU, the edge port is shut down and enters the error-down state.

True

False

34. IGMP Snooping runs on the data link layer to manage and control multicast groups and prevents multicast packets on Layer 3 broadcasts

True

False

35. When two routers establish a logical BGP peer relationship over multiple physical links, the peer connect-interface command must be used.

True

False

36. According to BGP route selection rules, the route with the higher Local Pref is preferred.

True

False

37. If one routing protocol only needs to import part of the routing information of another routing protocol and set attributes of the imported routes, only the route policy can meet this requirement.

True

False

38. In the OSPF protocol, intra-area route calculation involves only Router LSA, Network LSA, and Summary LSA.

True

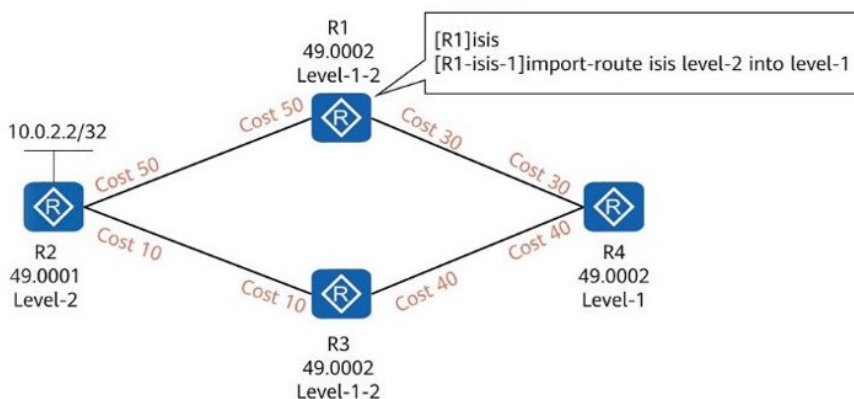
False

39. An ASBR in an OSPF NSSA area can import external routes within this area and flood the Type 7 LSA in the NSSA area, but it does not flood Type 4 LSAs or Type 5 LSAs within this area. Instead, it translates Type 7 LSAs into Type 5 LSAs and then flood the Type 5 LSAs to other areas.

True

False

40. See the network shown in the following figure. Route leaking is configured on R1. In this case, R1 sends a Level-2 LSP to R3 so that R3 can learn routes on the entire network.



True

False

41. MAC address-prioritized Portal authentication allows disconnected users who have completed Portal authentication to directly access the network again within period of time after the disconnection without having to perform Portal authentication again.

True

False

42. Fast detection technology can rapidly detect communication faults between neighboring devices as soon as possible so that the system can take measures immediately to ensure that services are not interrupted.

True

False

43. Adding a member switch to a stack means that a switch joins a running stack after being powered on.

True

False

44. The first four bits of a multicast IP address are fixed as 1110 and are mapped to the most significant 25 bits of a multicast MAC address. Among the last 28 bits of a multicast IP address, only 23 bits are mapped to a multicast MAC address, and information about the other 5 bits is lost. As a result, 32 multicast IP addresses are mapped to the same MAC address.

True

False

45. When two BGP peers support different BGP versions, they will negotiate to support the highest BGP version that can support.

True

False

46. Similar to PBR, MQC can be applied only to Layer 3 interfaces.

True

False

47. When two routers exchange LSDB information using DD packets, a master/slave relationship is formed first, the router with a larger router ID is the master, and determine the MS bit.

True

False

48. An ABR in an OSPF stub area does not flood Type 4 LSAs, or Type 5 LSAs within the stub area. Therefore, the stub area does not have the AS external routing capability. The ABR advertises a default route within the stub area to instruct how to transmit packets to a destination outside an AS.

True

False

49. An IS-IS router with the interface priority 0 cannot participate in DIS election.

True

False

50. A route's next-hop address in a routing table must be on the same network segment as the IP address of the local interface to which the next hop is directly connected

True

False

51. Two IS-IS routers can establish an adjacency only if they send IIH packets at the same interval.

True

False

52. BFD determines whether a fault occurs by periodically sending detection packets. It is a routing protocol-dependent fast fault detection mechanism.

True

False

53. RPF can prevent multicast forwarding loops.

True

False

54. Policy-based routing and routing policy affect the forwarding of data packets in different ways. Policy-based routing controls packet forwarding based on a configured policy. If policy-based routing fails, packets are forwarded based on the routing table. Policy-based routing is based on the forwarding plane and serves forwarding policies. It needs to be configured manually. Routing policies control packet forwarding based on destination addresses in the routing table. Routing policies are based on the control plane and serve routing protocols and routing tables. They are used with specific routing protocols.

True

False

55. OSPF runs on TCP protocol and uses TCP port number 179.

True

False

56. An AS boundary router can be an internal router or ABR and must belong to the backbone area.

True

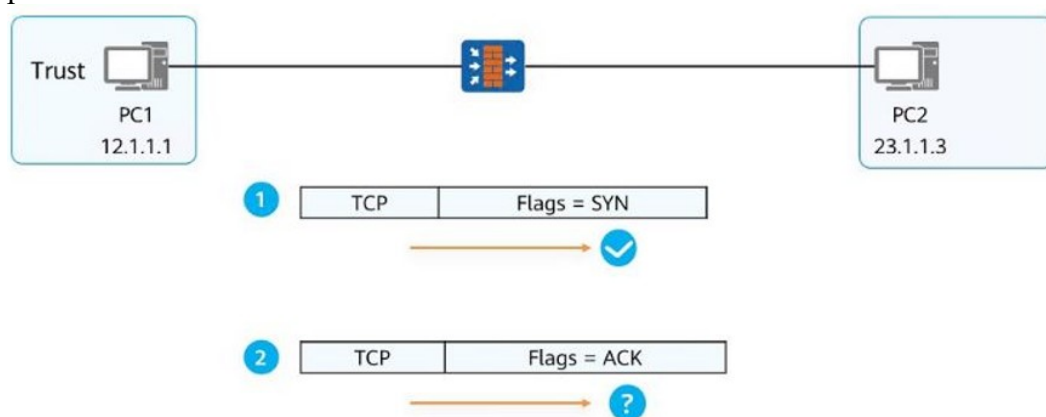
False

57. By default, VRRP on a Huawei AR router works in preemption mode.

True

False

58. As shown in the figure, the stateful inspection firewall forwards the TCP three-way handshake packet.



True

False

59. Different from STP, RSTP has only one type BPDU with the BPDU Type field being 2, but does not use TCN BPDUs.

True

False

60. IGMP snooping cannot prevent bandwidth waste by multicast traffic on Layer 2 switches. Whether IGMP snooping is configured on Layer 2 switches does not affect multicast traffic.

True

False

61. Multiple BGP processes cannot be configured on the same router.

True

False

62. ICMPv6 messages are classified as error or informational messages.

True

False

63. The stateful inspection firewall uses the session table to trace activated TCP and UDP sessions, firewall security policies determine which sessions are established, and only the packets associated with sessions are forwarded.

True

False

64. If a router ID is configured in both the system view and the BGP view, BGP uses the router ID configured in the BGP view because the BGP view takes precedence over the system view.

True

False

65. Regardless of any changes in the BGP routing table, the BGP speaker only advertises the changed route to the neighbor.

True

False

66. The IGMP runs between IP hosts and their directly connected multicast routers to create and maintain multicast group membership.

True

False

67. In dual-link HSB, an AP sets up CAPWAP links with both the active and standby ACs.

True

False

68. After SSM mapping rules are configured on an IGMP querier, the querier can provide the SSM service only for IGMPv2 hosts.

True

False

69. According to BGP route selection rules, the manually summarized routes generated using the aggregate command are preferred over the automatically summarized routes generated using the summary automatic command.

True

False

70. Two Level-1 routers in different areas can establish a neighbor relationship.

True

False

71. On a large-scale WLAN, if a VLAN pool uses the hash algorithm to assign VLANs, the number of users in each VLAN is evenly distributed.

True

False

72. In MSTR each MSTI calculates an independent spanning tree by using the RSTP algorithm.

True

False

73. IGMPv1 defines a mechanism to select a querier when there are multiple routers on a shared network.

True

False

74. BGP AS_PATH attribute is an optional transitive attribute.

True

False

75. In the OSPF protocol, the not-advertise parameter can be specified in the asbr-summary command to indicate that summarized routes that not be advertised.

True

False

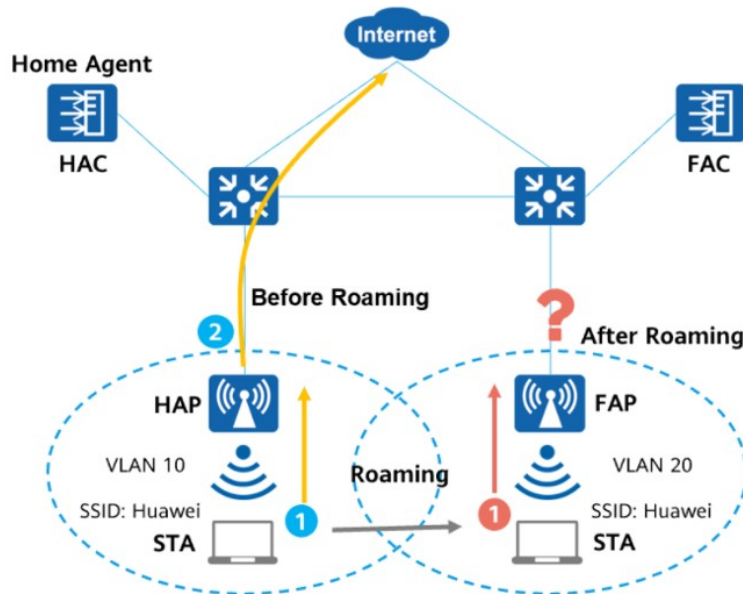
76. A route's next-hop address in a routing table must be on the same network segment as the IP address of the local interface to which the next hop is directly connected.

True

False

SINGLE CHOISE

1. As shown in the figure, data traffic from a STA is forwarded by the HAP to the upper-layer network in direct forwarding mode before roaming, and the HAC is configured as the home agent. What is the flow direction of data traffic after Layer 3 roaming?



- A. STA → FAP → FAC → Upper-layer network
- B. STA → FAP → FAC → HAC → HAP → Upper-layer network
- C. STA → FAP → FAC → HAC → Upper-layer network
- D. STA → FAP → FAC → HAC → HAP → HAC → Upper-layer network

2. An engineer sets the CAPWAP heartbeat detection interval to 20 seconds and enables dual-link HSB. What is the heartbeat timeout interval of the active link before an active/standby switchover occurs?

- A. 20s
- B. 60s
- C. 75s
- D. 90s

3. Which of the following IEEE 802.11 standards is also known as Wi-Fi 6?

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

4. Which command is used to configure the VRRP preemption delay?

- A. vrrp vrid 1 preempt-timer 20
- B. vrrp vrid 1 preempt-mode timer delay 20
- C. vrrp vrid 1 timer delay 20
- D. vrrp vrid 1 preempt-delay 20

5. Which command is used to configure association between VRRP and a physical interface?

- A. vrrp vrid 1 track interface GigabitEthernet0/0/0
- B. track vrrp vrid 1 interface GigabitEthernet0/0/0
- C. vrrp vrid 1 interface GigabitEthernet0/0/0 track
- D. vrrp vrid 1 interface GigabitEthernet0/0/0

6. During the DHCP interaction process, the DHCP server and client exchange various types of packets. Which of the following packets is not sent from the client to the server?

- A. DHCP NAK
- B. DHCP Request
- C. DHCP Discover
- D. DHCP Release

7. When the IPv6 address of a host is configured using stateless address autoconfiguration and other parameters except the address are obtained through DHCPv6, which of the following M and O flag settings are valid for RA messages?

- A. M = 1
O = 1
- B. M = 1
O = 0
- C. M = 0
O = 1
- D. M = 0
O = 0

8. Which of the following attacks is not the network layer attack?

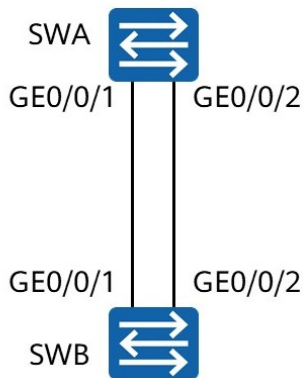
- A. IP spoofing attack
- B. Smurf attack
- C. ARP spoofing attack
- D. ICMP attack

9. Which of the following statements regarding the firewall zone is true?

- A. Different zones of firewall can use the same priority.
- B. A firewall interface can belong to different zones.
- C. Different firewall interfaces can belong to the same zone.
- D. The default firewall zone can be deleted.

10. As shown in the figure, SWA and SWB run the Rapid Spanning Tree Protocol (RSTP), and the default value of cost of the path is retained. Which of the following statements is true?

Bridge ID:0.4c1f-cc9d-4650



Bridge ID:0.4c1f-cc9d-4655

- A. SWB will become the root bridge.
- B. GE0/0/1 on SWB is an alternative port.
- C. GE0/0/2 on SWB is an alternative port.
- D. GE0/0/1 on SWA is a backup port.

11. What happens when the topology of a network running RSTP changes?

- A. The MAC address table remains unchanged
- B. The aging time of MAC address entries is changed
- C. Some MAC address entries are deleted
- D. The entire MAC address table is deleted

12. This is part of output information on router Huawei. Which of the following statements regarding the output information is false?

```
<HUAWEI>display pim rp-info
VPN-Instance: public net
PIM-SM BSR RP Number:1
Group/MaskLen: 224.0.0.0/4
  RP: 2.2.2.2(local)
  Priority: 0
  Uptime: 03:01:36
  Expires: 00:02:29
```

- A. The display pim rp-info command displays RP information for a multicast group.
- B. The RP address is 2.2.2.2.
- C. The RP priority is 0.
- D. The group address is 225.0.0.0.

13. Which of the following statements regarding an SPT switchover after RPT setup is false?

- A. An RPT cannot provide multicast forwarding for a long time.
- B. Because all multicast traffic passes through an RP router, the RP router may become the data forwarding bottleneck.
- C. An SPT has the shortest path and provides higher forwarding performance than an RPT.
- D. A RPT cannot be used to forward high volumes of traffic.

14. Which of the following statements regarding the display of a router is true?

```
[HUAWEI]display bgp routing-table community
```

BGP Local router ID is 1.1.1.2

Status codes: * - valid, > - best, d - damped,

h - history, i - internal, s - suppressed, S - Stale

Origin : i - IGP, e - EGP, ? - incomplete

Network	NextHop	MED	LocPrf	PrefVal	Community
* 1.1.1.0/24	1.1.1.1	0			no-export
*> 5.1.1.0/24	1.1.1.1	0			no-advertise

- A. The Community attribute of the route to the destination network segment 1.1.1.0/24 is no-export, indicating that this route cannot be advertised to any BGP peer.
- B. The Community attribute of the route to the destination network segment 1.1.1.0/24 is no-export, indicating that this route can be advertised to any BGP peer.
- C. The Community attribute of the route to the destination network segment 5.1.1.0/24 is no-advertise, indicating that this route cannot be advertised to any other BGP peer.
- D. The Community attribute of the route to the destination network segment 5.1.1.0/24 is no-advertise, indicating that this route cannot be advertised outside the local AS.

15. Which of the following statements regarding BGP Update messages is false?

- A. Generally, Update messages are sent after Keepalive messages.
- B. Update messages are used to exchange routing information between BGP peers.
- C. Update messages can be used to advertise multiple reachable routes.
- D. Update messages are sent in multicast mode.

16. Which of the following statements regarding BGP, OSPF, IS-IS, and RIP is true?

- A. BGP peer relationships are established based on TCP sessions and using the port number 179.
- B. OSPF runs based on the IP protocol and uses the protocol number 90.
- C. ISIS runs based on the IP protocol and uses the protocol number 89.
- D. RIP runs based on UDP sessions and uses the protocol number 179.

17. Which of the following tools cannot be used for route filtering?

- A. policy-based-route
- B. IP-prefix
- C. route-policy
- D. ip community-filter

18. Regarding the route-policy set-cost configuration below, which of the following statements is true?

```
[HUAWEI]ip ip-prefix 1 permit 11.1.0.0 16
[HUAWEI]route-policy Set-cost permit node 10
[HUAWEI-route-policy]if-match ip-prefix 1
[HUAWEI-route-policy]apply cost 300
[HUAWEI-route-policy]quit
[HUAWEI]route-policy Set-cost permit node 20
[HUAWEI-route-policy]apply cost 200
[HUAWEI-route-policy]quit
```

- A. The route 11.1.0.0/16 is permitted by node 10, and its cost is set to 300.
- B. The route 11.1.0.0/16 will continue to match node 20 after permitted by node 10, and the final cost is set to 200.
- C. The cost of all routes is set to 200.
- D. All the routes that are not permitted by node 10 will be denied.

19. Which of the following statements regarding LSA is true?

- A. LS type, Link State ID, and Advertising Router can identify an LSA.
- B. LS type, Link State ID, and LS sequence number can identify an LSA.
- C. LS type, LS sequence number, and Advertising Router can identify a LSA.
- D. LS sequence number, Link State ID, and Advertising Router can identify a LSA.

20. Which of the following statements regarding stub area configuration notes is true?

- A. The backbone area can be configured as a stub area.
- B. If an area is configured as a stub area, all the routers within this area must have stub area attributes configured.
- C. An ASBR can belong to a stub area.
- D. A virtual link can pass through a stub area.

21. Which of the following LSAs can carry tag information of external routes?

- A. Type 5 LSA
- B. Type 4 LSA
- C. Type 3 LSA
- D. Type 2 LSA

22. Which of the following statements regarding ASBR-Summary-LSA is false?

- A. Link State ID indicates the router ID of an ASBR.
- B. Advertising Router indicates the router ID of an ABR.
- C. The Advertising Router fields in ASBR-Summary-LSAs of all areas are the same.
- D. Metric indicates the cost of routes from an ABR to an ASBR.

23. What is the default Hello interval of a DIS in a broadcast network?

- A. 5s
- B. 10s
- C. 3.3s
- D. 40s

24. Which of the following types of Hello packets is not included in IS-IS?

- A. Level-1 LAN IIH
- B. Level-2 LAN IIH
- C. P2P IIH
- D. P2MP IIH

25. Which of the following statements about the AC's mobility group is false?

- A. After an AC is configured as a mobility server, it is added to the mobility group by default and can manage other ACs in the group.
- B. An AC functioning as a mobility server manages other ACs through CAPWAP tunnels.
- C. The mobility server is a logical role, and any physical AC can be configured as a mobility server.
- D. Each member AC must have a mobility server specified.

26. Which of the following statements about precautions for the HSB configuration is false?

- A. During the dual-link HSB configuration, you need to run the commit command on the active AC to deliver the configurations to APs after completing service configurations on both the active and standby ACs.
- B. During the dual-link HSB configuration, you need to run the commit command on the active AC to deliver the configurations to APs after completing service configurations on the active AC. Then perform configurations on the standby AC.
- C. During the dual-link HSB configuration, ensure that active and standby ACs deliver the same WLAN service configuration to an AP. If the configurations are inconsistent, the AP may fail to work properly after an active/standby switchover between ACs.
- D. In dual-link HSB mode, an active/standby switchover takes a long time. During this process, services forwarded through tunnels are interrupted, new users cannot go online, and online users cannot roam.

27. When BFD detection intervals at both ends are 30ms and 40ms. Which of the following statement is true?

- A. A BFD session can be set up. After the negotiation, the detection interval of 40ms is used.
- B. A BFD session can be set up. After the negotiation, the detection interval of 30ms is used.
- C. A BFD session can be set up, and packets are sent at respective intervals at both ends.
- D. A BFD session cannot be established.

28. Which of the following statements regarding the VRRP master is false?

- A. The VRRP master periodically sends VRRP packets.
- B. The VRRP master uses the virtual MAC address to respond to ARP Request packets destined for the virtual IP address.
- C. The VRRP master forwards IP packets destined for the virtual MAC address.
- D. Even if the router becomes the master, the backup router with a higher priority preempts to be the master.

29. The MAC address of a PC is 5489-98FB-65D8. An administrator wants the PC to obtain the specified IP address 192.168.1.11/24 from a DHCP server. Which of the following commands should the administrator run?

- A. dhcp static-bind ip-address 192.168.1.11 mac-address 5489-98FB-65D8
- B. dhcp static-bind ip-address 192.168.1.11 24 mac-address 5489-98FB-65D8
- C. dhcp server static-bind ip-address 192.168.1.11 255.255.255.0 mac-address 5489-98FB-65D8
- D. dhcp server static-bind ip-address 192.168.1.11 mac-address 5489-98FB-65D8

30. Which of the following modules must be installed on firewalls but may not on routers or switches?

- A. LPU
- B. SPU**
- C. MPU
- D. SFU

31. On the USG series firewall, what is the security level of the DMZ?

- A. 5
- B. 50**
- C. 85
- D. 100

32. A switch runs MSTP. The configuration is shown in the figure. What is the role of this switch in MSTI 1 ?

[SWA]display stp brief

MSTID	Port	Role	STP State	Protection
0	GigabitEthernet0/0/12	DESI	FORWARDING	NONE
0	GigabitEthernet0/0/15	ROOT	FORWARDING	NONE
1	GigabitEthernet0/0/12	DESI	FORWARDING	NONE
1	GigabitEthernet0/0/15	DESI	FORWARDING	NONE
2	GigabitEthernet0/0/12	DESI	FORWARDING	NONE
2	GigabitEthernet0/0/15	ROOT	FORWARDING	NONE

- A. Root switch**
- B. Secondary root switch
- C. Non-root switch
- D. Uncertain

33. Which IGMP version is required in the SSM model?

- A. IGMPv1
- B. IGMPv2
- C. IGMPv3**
- D. IGMPv4

34. When a BGP router receives a route with an unreachable next hop, how does it process the route?

- A. It sends an error message to the router that sent the Update message
- B. It does not add this route to its BGP routing table and discards this route
- C. It accepts and adds this route to its BGP routing table. However, this route will not be preferred by BGP and not added to the IP routing table**
- D. It accepts and adds this route to its BGP routing table. This route will participate in BGP route selection and may become the optimal route or be added to the IP routing table

35. Which of the following statements regarding BGP is false?

- A. BGP is an exterior routing protocol and is used to transmit routing information between ASs.
- B. BGP is a link-state routing protocol.**
- C. BGP supports CIDR.
- D. BGP provides abundant route filtering and routing policies.

36. Which of the following routing policy tools can be used to add or delete an AS path?

- A. ip-prefix
- B. filter-policy
- C. ip as-path-filter
- D. community-filter

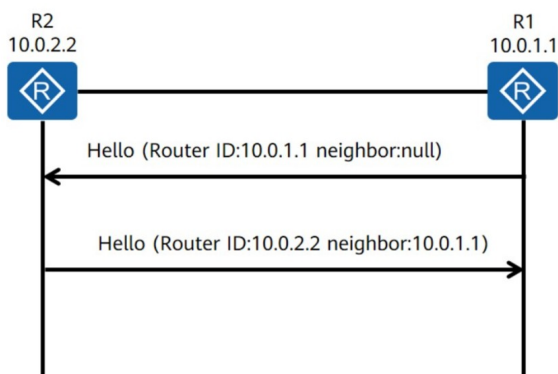
37. Which of the following statements regarding routing policies is true?

- A. Routing policies control packet forwarding based on destination addresses in the routing table
- B. Routing policies are based on the forwarding plane and serve forwarding policies
- C. A routing policy needs to be manually configured hop by hop to ensure that packets are forwarded according to the policy
- D. A routing policy is configured using the policy-based-route command

38. Which of the following statements regarding OSPF packets is false?

- A. Hello packets are used to discover and maintain OSPF neighbor relationships and also can be used to elect DR and BDR on broadcast and NBMA networks.
- B. DD packets carry LSA header information to describe link state summary information.
- C. Two routers must send Hello packets at the same interval. Otherwise, they cannot establish an OSPF neighbor relationship.
- D. DD packets contain all LSA information and can be used to periodically synchronize LSDB information between neighbors.

39. See the network shown in the following figure. R1 and R2 run OSPF. The router ID of R1 is 10.0.1.1, and that of R2 is 10.0.2.2. After R1 receives an OSPF packet from R2, which of the following is the neighbor state of R1 ?



A. Down

B. 2-way

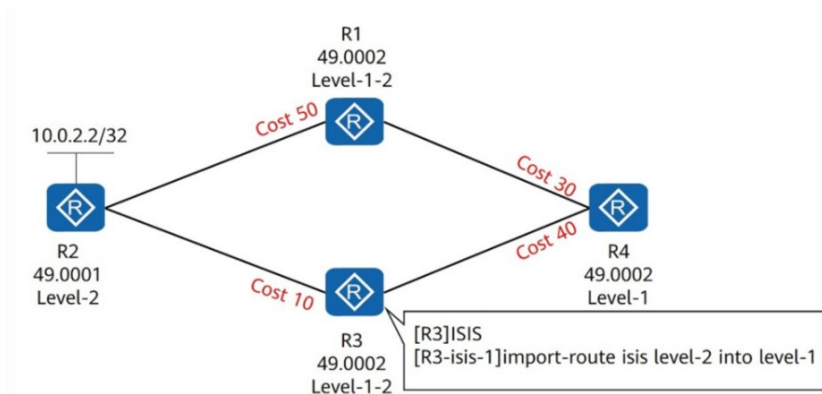
40. Which of the following statements regarding the OSPF protocol are false?

- A. The Network Mask field in the Hello packets received in broadcast networks must be consistent with the network mask of the receiving interface.
- B. The Hello Interval field that received Hello packets must be consistent with the configuration of the receiving interface.
- C. The Dead Interval field in received Hello packets must be consistent with the configuration of the receiving interface.
- D. The MTU in received Hello packets must be consistent with the configuration of the receiving interface.

41. What is the link ID of a Type 3 LSA?

- A. Router ID of the router that generates this LSA
- B. Interface IP address of the DR on the network segment that this LSA describes
- C. Destination network segment that this LSA describes
- D. Router ID of the ABR that this LSA describes

42. Four routers run IS-IS and have established adjacencies. The area IDs and router levels are marked in the following figure. If route leaking is configured on R3, which of the following is the cost of the route from R4 to 10.0.2.2/32?



A. 50

B. 30

C. 40

D. 80

43. Which of the following statements about the forwarding plane of a switch is false?

- A. Consists of main control boards and interface boards.
- B. Can collect packet statistics.
- C. Provides high-speed and non-blocking data channels.
- D. Can encapsulate and decapsulate packets.

44. In areas with densely distributed rooms, such as dormitories, hotels, and wards, a large number of packets are sent to the AC if an AP is deployed in each room. As a result, the AC may become a performance bottleneck. Which of the following networking architectures can be used to handle this challenge?

- A. Fat AP
- B. AC + Fit AP
- C. Leader AP
- D. Agile distributed AP

45. What is the default sending interval of BFD packets?

- A. 5s
- B. 100ms
- C. 1000ms
- D. 10s

46. If two devices are connected, one device supports BFD, and the other devices do not support BFD, which BFD function can be used by the BFD-capable device to detect link connectivity?

- A. Fast handshake
- B. Interface association
- C. BFD Echo
- D. Bidirectional detection

47. Which of the following statements about NDP's address resolution is false?

- A. Address resolution uses ICMPv6 neighbor solicitation and neighbor advertisement messages.
- B. When a neighbor solicitation message is sent, the destination address must be the solicited-node multicast address of the neighbor.
- C. When a neighbor solicitation message is sent, the source address must be the link-local address of the local interface.
- D. Address resolution translates IPv6 addresses into link-layer addresses.

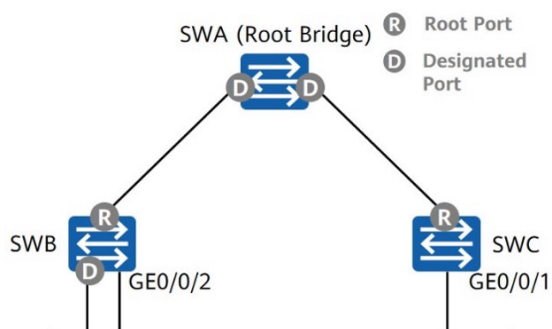
48. Which of the following statements regarding the firewall zone security level is false?

- A. The default security level of the new zone is 1.
- B. Only the security level of the user-defined zone can be configured.
- C. The configured security level cannot be changed.
- D. Two zones cannot be configured with the same security level.

49. For interzone packet filtering, which traffic is belong to transmitted to outbound direction?

- A. Trusted zone-> Untrusted zone
- B. Untrusted zone -> Trusted zone
- C. Untrusted zone-> DMZ zone
- D. Trusted zone -> Local zone

50. As shown in the figure, SWA, SWB, and SWC run the Rapid Spanning Tree Protocol (RSTP). What are the roles of SWBs GE0/0/2 and SWC's GE0/0/1?



- A. Backup port, alternative port
- B. Root port, designated port
- C. Backup port, root port
- D. Alternative port, backup port

51. The following is part of output information on RIB. Which of the following statements regarding the output information is false?

```
<RTB>display igmp group
Interface group report information of VPN-Instance: public net
GigabitEthernet1/0/0(10.1.6.2):
Total 1 IGMP Group reported
  Group Address  Last Reporter  Uptime    Expires
  225.1.1.2      10.1.6.10     00:02:04  00:01:17
```

- A. The number of multicast groups that the interface has dynamically joined is 1.
- B. The interface has joined multicast group 225.1.1.2.
- C. The 'display igmp group' command displays information about IGMP groups, including the groups that members dynamically join by sending Report messages and those that members join through static configuration.
- D. The IP address of the last host that sent a Report message is 225.1.1.2

52. Which of the following statements about multicast is false?

- A. A multicast group is a group of receivers that is identified by a multicast IP address.
- B. A multicast source is the sender of multicast traffic and must join a multicast group to be capable of forwarding multicast traffic to the group.
- C. Hosts of a multicast group can be widely distributed on the network.
- D. A multicast router can be a router or a Layer 3 switch that supports Layer 3 multicast protocols.

53. Which of the following messages can be periodically sent between BGP peers to maintain their connection?

- A. Open
- B. Hello
- C. Keepalive
- D. Update

54. Which of the following attributes must be carried in an Update message?

- A. AS_Path
- B. Local-Pref
- C. PrefVal
- D. MED

55. Which of the following statements regarding BGP, OSPF, IS IS, and RIP is true?

- A. BGP peer relationships are established based on TCP sessions and using the port number 179.
- B. OSPF runs based on the IP protocol and uses the protocol number 90.
- C. ISIS runs based on the IP protocol and uses the protocol number 89.
- D. RIP runs based on UDP sessions and uses the protocol number 179.

56. Which of the following statements regarding the commands for configuring default routes for various routing protocols is false?

- A. For static routing, the ip route-static default-preference command creates a default route on the local router
- B. For IS IS, the default-route-advertise command creates a default route or advertises the default route in the routing table to neighbors
- C. For OSPF, the default route-advertise command advertises the default route on the local router into a normal OSPF area
- D. For BGP, the default-route imported command enables the local router to import the default route to the BGP routing table

57. Which of the following statements regarding OSPF route summarization is false?

- A. Route summarization is the process of summarizing routes with the same prefix into one route and then advertising only the summarized route to other areas
- B. Route summarization can reduce routing information, decrease the routing table size, and improve router performance.
- C. OSPF supports two route summarization modes: ABR summarization and ASBR summarization.
- D. Any router in OSPF can summarize routes.**

58. Which of the following OSPF areas reaches other areas through default routes?

- A. Backbone area
- B. Area to which a virtual link is connected
- C. Totally stub area**
- D. Re-advertiseinent area

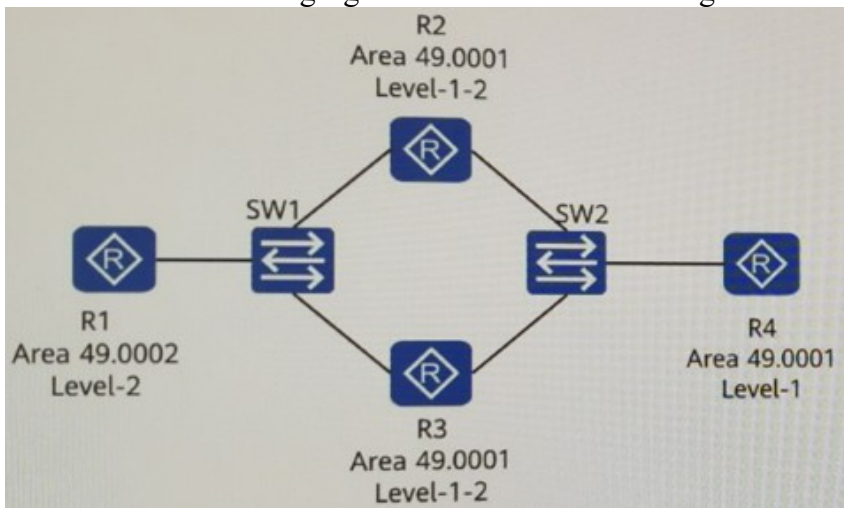
59. Which of the following statements regarding OSPF is true?

- A. OSPF uses the Bellman-Ford algorithm, and each router independently runs this algorithm.
- B. OSPF performs LSDB update every 30 minutes.**
- C. OSPF floods a LSU packet at an interval of 5s.
- D. OSPF does not have an acknowledgement mechanism. Therefore, OSPF relies on the upper-layer protocol, TCP, for acknowledgement.

60. Which of the following TLVs is used by IS-IS to describe the IP address of an interface?

- A. 128
- B. 129
- C. 131
- D. 132**

61. Four routers run IS-IS and have established adjacencies. The area IDs and router levels are marked in the following figure. Which of the following statements is true?



- A. Both R2 and R3 generate Level-1 LSPs with the ATT bit set to 1.**
- B. Both R2 and R3 generate Level-2 LSPs with the ATT bit set to 1.
- C. R2 and R3 learn default routes from each other, and a routing loop occurs on the network.
- D. R1 does not have the LSP generated by R4. Therefore, R1 can communicate with R4 only through the default route.

62. Which of the following statements about the routing information base (RIB) and forwarding information base (FIB) is false?

- A. A FIB is generated based on a RIB.
- B. A RIB does not directly guide packet forwarding.
- C. A FIB directly guides packet forwarding.
- D. The next hop in a RIB must be the IP address of the peer interface to which the local interface is directly connected.

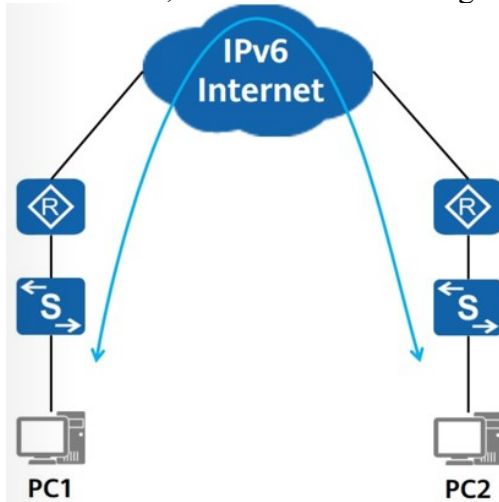
63. Which of the following statements regarding VRRP is false?

- A. VRRP determines the device role in the virtual router based on device priorities.
- B. If the backup router works in non-preemption mode, the backup router with a higher priority does not become the master router as long as the master router does not fail.
- C. Even if there is the master router, the backup router will preempt to be the master router.
- D. When two routers with the same priority preempt to be the master router, the IP addresses of interfaces are compared. The router with a larger IP address of the interface is selected as the master router.

64. What is the IP protocol number of VRRP packets?

- A. 112
- B. 114
- C. 116
- D. 118

65. As shown in the figure, to implement communication between PC1 and PC2 in a native IPv6 environment, which of the following addresses can be configured on PC1 and PC2, respectively?



- A. FD00:1AC0:872E::1/64
FD00:2BE1:2320::1/64
- B. FE80::1/64
FE80::2/64
- C. 2001:FDC::1/64
2001:FDC1::2/64
- D. 2001:FDC::1/64
2001:FDC::2/64

66. An attacker sends ICMP Request packets with the destination address as the broadcast address of the attacked user host. What is this attack?

- A. IP spoofing attack
- B. Smurf attack
- C. ICMP redirection attack
- D. SYN Flood attack

67. Which of the following statements regarding the default zone of USG series firewalls is true?

- A. The default zone can be deleted.
- B. The level of the default zone can be changed.
- C. The default zone cannot be deleted, but its level can be changed.
- D. There are four default zones.

68. RSTP provides different functions in different scenarios. Which of the following statements is false?

- A. If the edge port on the switch enabled with BPDU protection receives RST BPDU, the switch sets the edge port as a non-edge-port and triggers STP calculation
- B. The role of the designated port that is enabled with root protection cannot be changed
- C. When the designated port enabled with root protection receives optimal RST BPDUs, the port enters the Discarding state and does not forward packets. If the port does not receive optimal RST BPDUs within a certain period of time, the port will automatically restore to the Forwarding state
- D. After TC-BPDU attack defense function is enabled, you can set the number of times the switch processes TC BPDUs within a certain period

69. Which of the following statements regarding the IGMP snooping working mechanism is true?

- A. A switch adds a host to a group entry when receiving an IGMP Leave message from the host.
- B. A switch deletes the multicast entry for a host after receiving an IGMP Report message from the host.
- C. A Layer 2 switch creates and maintains a broadcast MAC address table by listening to IGMP packets.
- D. If IGMP snooping is not configured, multicast packets are broadcast at Layer 2. After IGMP snooping is configured, multicast packets are transmitted in multicast mode at Layer 2.

70. Which of the following statements regarding the summary automatic command and BGP route summarization is false?

- A. This command enables automatic summarization for the locally imported routes
- B. After this command is configured, BGP summarizes routes based on natural network segments
- C. After this command is configured, BGP sends only the summarized routes to peers
- D. This command is used to implement automatic summarization. Automatic summarization takes precedence over manual summarization

71. Which of the following statements regarding the BGP error display of a router is false?

```
<HUAWEI>display bgp error
Error Type    : Peer Error
Date/Time     :2010-03-22 12:40:39
Peer Address  : 10.1.1.5
Error Info    : Incorrect remote AS
```

- A. Error Type indicates that the BGP error is caused by the neighbor relationship error.
- B. The error occurred at 12:40:39 on March 22, 2010.
- C. The neighbor address of this router is 10.1.1.5.
- D. The error may be caused by the incorrect neighbor address.

72. The following is part of configuration on the Huawei router. Which of the following statements regarding the configuration is false?

```
[HUAWEI]ip as-path-filter 2 permit _200_300
[HUAWEI]route-policy test permit node 10
[HUAWEI-route-policy]if-match as-path-filter 2
```

- A. An AS-Path filter with sequence number 2 is configured, which permits the routes include information of AS 200 and AS 300.
- B. A route-policy named test is configured, with node number 10.
- C. Node 10 of the route policy references AS-Path filter 2 and defines one if-match clause.
- D. The route-policy can only be applied in an OSPF process.

73. In the ACL configuration command `ad ( number ] ad-number [ match-order {auto | config } ]`, the `acl-number` parameter specifies an ACL number. Which of the following is the range of basic ACL numbers?

- A. 1000-3999
- B. 2000-2999
- C. 3000-3999
- D. 0-1000

74. Which of the following statements regarding OSPF multi-instance is false?

- A. The OSPF process IDs must be the same when OSPF neighbor relationships are established between different routers.
- B. An interface of a router belongs to only a certain OSPF process.
- C. Route exchange between different OSPF processes is similar to route exchange between different routing protocols.
- D. Multiple OSPF processes can run on the same router, and they are independent of each other.

75. Which of the following statements regarding different LSA types is false?

- A. DD packets contain only LSA summary information, including LS Type, LS ID, Advertising Router, and LS Sequence Number.
- B. LS Request packets contain only LS Type, LS ID, and Advertising Router.
- C. LS Update packets contain complete LSA information.
- D. LS Ack packets contain complete LSA information.

76. Which of the following statements about OSPF packets is false?

- A. OSPF uses five types of packets to transmit routing information.
- B. All OSPF packets have the same packet header format.
- C. OSPF packets are encapsulated in UDP packets and use the port number 89.
- D. The header of each OSPF packet contains the Router-ID field.

77. Which of the following statements regarding OSPF neighbor information is false?

```
<RTA>display ospf peer
      OSPF Process 1 with Router ID 1.1.1.1
          Neighbors
Area 0.0.0.0 interface 10.1.1.1(Ethernet0/0/0)'s neighbors
Router ID: 2.2.2.2      Address: 10.1.1.2
State: Full Mode:Nbr is Master Priority: 1
DR: 10.1.1.1 BDR: 10.1.1.2 MTU: 0
Dead timer due in 40 sec
Retrans timer interval: 5
Neighbor is up for 00:00:12
Authentication Sequence: [ 0 ]
```

- A. The router ID of the local router is 1.1.1.1.
- B. The router ID of the neighbor is 2.2.22.
- C. The DR address is 10.1.1.1.
- D. The local router is the master.**

78. Which of the following is the default interval at which the DIS on a broadcast IS-IS network sends CSNPs.

- A. 3.3
- B. 10**
- C. 30
- D. 40

79. Which of the following functions is not provided by the control plane of a switch?

- A. Service processing
- B. Route computation
- C. Traffic statistics collection
- D. System loading**

80. Which of the following statements regarding the OSPF shortest path tree computation phase is true?

- A. In phase 1, OSPF computes stub network segment. In phase 2, OSPF computes routing nodes and transit network segment.
- B. In phase 1, OSPF computes stub network segment. In phase 2, OSPF computes routing nodes.
- C. In phase 1, OSPF computes routing nodes and transit network segment. In phase 2, OSPF computes stub network segment.
- D. In phase 1, OSPF computes routing nodes. In phase 2, OSPF computes stub network segment.**

81. Which of the following models is applicable to Huawei's IP WAN bearer network solution?

- A. NetEngine 8000**
- B. NetEngine AR6000
- C. CE12804
- D. AirEngine 5760-22W

82. Which of the following scenarios is not suitable for deploying interface PBR?

- A. A device needs to modify the next-hop IP address for locally originated traffic.**
- B. A core switch needs to forward the traffic between the intranet and extranet to a security detection device that connects to the core switch in off-path mode.
- C. On an enterprise network with multiple ISP outbound interfaces, each internal network segment accesses the Internet through a particular ISP outbound interface.
- D. A core switch needs to forward traffic between the intranet and extranet to an AC device that connects to the core switch in off-path mode.

83. The filter-policy 2000 export command is run in an ISIS process. Which of the following statements about the functions of a filter-policy is false?

A. Filters ISPs to be advertised.

B. Is used together with the route import function to advertise some imported external routes to neighbors.

C. Controls the advertisement of routes generated by the device.

D. If this command is not run, the device by default advertises all routes that IS-IS imports from external routing protocols.

84. BFD control packets are encapsulated in UDP packets for transmission. What is the destination port number of multi-hop BFD control packets?

A. 2784

B. 3784

C. 4784

D. 5784

85. How long is the default lease of addresses in a DHCP address pool?

A. 1 hour

B. 1 day

C. 1 week

D. 1 month

86. When the payload is an ICMPv6 message, what is the value of the Next Header field in the IPv6 header if extension headers are not considered?

A. 58

B. 55

C. 68

D. 78

87. Intranet users of a company use NAT in no-pat mode to access the Internet. If all public IP addresses are used, what will happen when subsequent intranet users go online?

A. The previous user is disconnected forcibly and subsequent intranet users go online through NAT translation.

B. Subsequent intranet users cannot go online.

C. NAT is automatically switched to PAT, and then subsequent intranet users go online.

D. Packets are synchronized to another NAT translation device.

88. STP ensures a loop-free network but has a slow network topology convergence speed, affecting communication quality. RSTP has made some improvements based on STP. Which of the following improvements is not included?

A. RSTP deletes three port states and adds two port roles.

B. RSTP reduces five port states to three port states based on user traffic forwarding and MAC address learning.

C. The non-root switch running RSTP sends configuration BPDUs at the interval specified by the Hello timer, which is performed independently by each device.

D. If a port does not receive configuration BPDUs from the upstream device within four Hello intervals, the switch considers that the negotiation with the neighbor fails.

89. Which of the following statements about multicast packet forwarding is true?
- A. In multicast transmission, the destination address of a packet can be the unicast address of a host.
 - B. If a multicast data packet fails the RPF check, the packet must have been received through a sub-optimal inbound interface. However, this interface still receives and forwards the multicast traffic downstream.
 - C. The source address of a multicast packet is a unicast address.
 - D. IGMP snooping cannot control the scope of multicast traffic flooding on a Layer 2 network.

90. When BGP path load balancing is not enabled, which type of BGP routes will be sent to BGP peers?
- A. All BGP routes learned from all BGP peer
 - B. Routes learned only from an IBGP peer
 - C. Routes learned only from an EBGP peer
 - D. Optimal route preferred by BGP

91. Which of the following statements regarding authentication in BGP configuration is true?
- A. All the routers in the same AS must use the same password.
 - B. A pair of BGP peers must use the same plaintext password.
 - C. All BGP peers of a router must use the same password.
 - D. A pair of BGP peers must use the same MDS password.

92. Which of the following statements regarding OSPF default route is false?
- A. An ABR can advertise Type 3 default Summary-LSAs to instruct intra-area routers to forward packets between areas.
 - B. An ASBR can advertise Type 5 default ASE LSAs or Type 7 default NSSA LSAs to instruct intra-AS routers to forward packets outside an AS.
 - C. When a router does not discover any exactly matched route, it can forward packets through default routes.
 - D. According to the hierarchical management of OSPF routes, the priority of Type 5 or Type 7 default routes is higher than that of Type 3 routes.

93. A failure to establish an OSPF adjacency is detected. Based on the following information that is displayed during OSPF troubleshooting, which of the following is the cause of the failure?

```
<Huawei>display ospf error interface GigabitEthernet 0/0/0
```

```
OSPF Process 1 with Router ID 10.0.12.2
```

```
OSPF error statistics
```

```
Interface: GigabitEthernet0/0/0 (10.0.12.2)
```

```
General packet errors:
```

0	: Bad version	0	: Bad checksum
4	: Bad area id	0	: Bad authentication type
0	: Bad authentication key	0	: Unknown neighbor
0	: Bad net segment	0	: Extern option mismatch
0	: Router id confusion		

```
HELLO packet errors:
```

0	: Netmask mismatch	0	: Hello timer mismatch
0	: Dead timer mismatch	0	: Invalid Source Address

- A. Process IDs are inconsistent.
- B. The IP address masks of interfaces are inconsistent.
- C. Area IDs are inconsistent.
- D. There is a conflict in router IDs.

94. A local router runs ISIS and its command output is shown in the following figure. Which of the following statements is true?

```
<R1>display isis interface verbose
Interface information for ISIS(1)
-----
Interface    Id    IPV4.State    IPV6.State    Type    DIS
S4/0/0      001    Up            Down          L1      --
Circuit MT State : Standard
IP Address       : 10.0.12.1
Csnp Timer Value : L12 10
Hello Timer Value : 10
DIS Hello Timer Value :
Hello Multiplier Value : 3
Cost             : L1 10 L2 10
Ipv6 Cost        : L1 10 L2 10
Retransmit Timer Value : L12 5
Extended-Circuit-Id Value : 0000000001
```

- A. The circuit level of S4/0/0 is Level-1.
- B. S4/0/0 sends IIH packets at the interval of 30s.
- C. S4/0/0 supports IPv6.
- D. The cost of S4/0/0 is 20.

95. Which of the following is not an IGP?

- A. RIP
- B. OSPF
- C. BGP
- D. IS-IS

96. Which of the following statements about N + 1 backup is true?

- A. The models and software versions of the active and standby ACs must be the same.
- B. The active and standby ACs can be of different models but must use the same software version.
- C. A standby AC can provide backup for multiple active ACs. This mode reduces device purchase costs and has higher reliability than the VRRP HSB mode.
- D. N+1 backup is a cold backup mode that backs up both AP and STA information.

97. Assuming that a large number of employees in a company's building start to access the company WLAN as soon as they arrive at the lobby, their mobile terminals roam to different WLAN hotspots as they move around the building. Which of the following methods is recommended to ensure that the IP address of each terminal is fixed?

- A. Configure a VLAN pool with the hash algorithm for VLAN assignment.
- B. Configure a VLAN pool with the even algorithm for VLAN assignment.
- C. Configure a VLAN pool with any algorithm.
- D. Configure a static IP address for each mobile terminal, without the VLAN pool configuration.

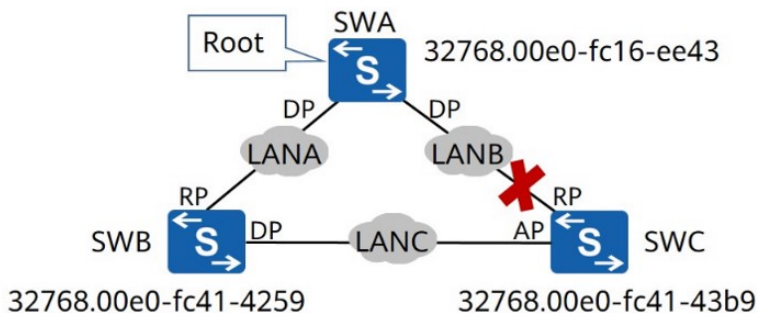
98. Which of the following statements regarding BFD session establishment is false?

- A. A BFD session can be dynamically established only.
- B. A static BFD session is set up by using commands to manually configure BFD session parameters, including the local discriminator and remote discriminator.
- C. During dynamic establishment of a BFD session, the local discriminator is allocated dynamically.
- D. The system uses discriminators to distinguish static and dynamic BFD sessions.

99. Which of the following is not the advantage of NAT?

- A. NAT allows network users with private IP addresses to easily access the Internet.
- B. NAT allows many hosts of the LAN to share one IP address for Internet access.
- C. NAT can process IP packet encryption.**
- D. NAT can shield internal network address and improves the security of the internal network.

100. As shown in the figure, in the network running the RSTP protocol, the original root port of the SWC fails and the port is in the Down state. Which of the following processes can the network be stable?



- A. The alternate port on SWC becomes the new root port and changes its status from Learning to Forwarding.**
- B. The alternate port on SWC becomes the new root port and enters the Forwarding state directly.
- C. SWC selects the root port again and enters the Forwarding state from the Learning state.
- D. SWC selects the root port again and enters the Forwarding state directly.

101. Which of the following statements regarding permanent multicast addresses is false?

- A. All hosts and routers on a network segment listen to multicast address 224.0.0.1
- B. All routers listen to multicast address 224.0.0.2
- C. All routers running OSPF listen to multicast address 224.0.0.5
- D. All routers running PIM listen to multicast address 224.0.0.100**

102. Which of the following statements regarding the BGP information displayed on a router is false?

```
<HUAWEI>display bgp network
```

```
BGP Local Router ID is 1.1.1.9
Local AS Number is 10(Public)
Network      Mask
1.2.0.0      255.255.0.0
4.4.4.0      255.255.255.0
```

- A. The display bgp network command displays information about the routes to be advertised using the network (BGP) command.**
- B. The router ID of the router is 1.1.1.9.
- C. The AS number of the router is 10.
- D. This router imports the network segment 4.4.4.0/24 using the import-route command.

103. Which of the following BGP attributes is not well-known attributes?

- A. AS_Path
- B. Origin
- C. MED
- D. Local_Pref

104. Which of the following statements regarding characteristics of IP prefixes is false?

- A. An IP prefix filter is used to filter IP address prefixes.
- B. An IP prefix filter can match an IP prefix number and a prefix length.
- C. An IP prefix filter provides more powerful route prefix matching function than an ACL.
- D. An IP prefix filter can be used to filter data packets.

105. Which of the following parameters is used by OSPF routers to elect the master and slave?

- A. Router-ID
- B. Area ID
- C. Interface IP address
- D. DR priority of an interface

106. When the MTUs of two interfaces connecting two routers in a broadcast network do not match, which of the following statements of two routers regarding OSPF neighbor state change is true?

- A. The OSPF neighbor state remains Init.
- B. The OSPF neighbor state remains 2-way.
- C. The OSPF neighbor state remains Exstart.
- D. The OSPF neighbor state can be Full.

107. Which of the following statements regarding received Hello packet validity check is false?

- A. If the network type of the receiving interface is broadcast, P2MP, or NBMA, the Network Mask field in received Hello packets can be inconsistent with that of the receiving interface.
- B. If the network type of receiving interface is P2P or a virtual link, the Network Mask field that received Hello packets is not checked.
- C. The RouterDeadInterval field that received Hello packets must be consistent with the configuration of the receiving interface.
- D. The E-bit in the Options field that received Hello packets must be consistent with the related area configuration.

108. In which of the following situations does an IS-IS router not generate LSPs?

- A. The system name of the router is changed.
- B. The cost of an IS-IS interface is changed.
- C. An IS-IS neighbor goes up or down.
- D. The IP address of the interface changes.

109. Which of the following methods is usually used by a network administrator to configure a newly purchased device for the first time?

- A. Login through the Console port
- B. Telnet
- C. FTP
- D. SNMP

110. A local router runs IS-IS, and its command output is shown in the following figure. Which of the following statements is false?

```
[R1]display isis lsdb local verbose
Database information for ISIS(1)
Level-1 Link State Database
LSPID      Seq Num      Checksum      Holdtime      Length  ATT/P/OL
-----
0100.0000.1001.00-00* 0x00000006  0x7794      747          86      0/0/0
SOURCE      0100.0000.1001.00
NLPID      IPV4
AREA ADDR   49.0001
INTF ADDR   10.0.12.1
INTF ADDR   10.0.1.1
NBR ID      0002.0200.2002.00 COST: 10
IP-Internal 10.0.12.0    255.255.255.0 COST: 10
IP-Internal 10.0.1.1     255.255.255.255 COST: 0
```

113. Application Specific Packet Filter (ASPF) is packet filtering based on the application layer. ASPF checks application layer protocol information, monitors the application layer protocol status of connections, and uses the Server map table to achieve a special security mechanism. Which of the following statements regarding ASPF and Server map is false?

- A. ASPF monitors packets during communication.
- B. ASPF dynamically creates and deletes filtering rules.
- C. ASPF uses the Server map table to dynamically allow data of multi-channel protocols through.
- D. The five-tuple Server-map entry implements a similar function to the session table.

114. Which of the following statements about multi-active detection (MAD) in a stack is false?

- A. MAD can be implemented in direct or relay mode.
- B. MAD in direct mode can be implemented through intermediate devices or in full-mesh mode.
- C. MAD relay detection requires that all stack members be connected to the MAD relay agent and the connected links be added to the same Eth-Trunk.
- D. Two stacks can use the same domain ID when they function as MAD relay agents of each other.

115. IGMP SSM mapping allows IGMPv1 and IGMPv2 group members to access the SSM network if a multicast source is manually bound to a multicast group. Which of the following statements about IGMP SSM mapping is false?

- A. If IGMP SSM mapping is not enabled, IGMPv1 and IGMPv2 do not support multicast deployment in SSM mode.
- B. The SSM group address ranges from 232.0.0.0 to 232.255.255.255.
- C. IGMP SSM mapping does not apply to IGMPv3 Report messages. To enable hosts running any IGMP version on a network segment to obtain the SSM service, IGMPv3 must run on multicast routers' interfaces that are connected to the hosts on the network segment.
- D. After static SSM mapping rules are configured on an IGMP querier, IGMPv1 or IGMPv2 Report messages are mapped to Leave messages.

116. Which of the following BGP attributes is not advertised in an Update message to neighbors?

- A. PrefVal
- B. Next-hop
- C. AS Path
- D. Origin

117. Which of the following attributes cannot be directly referenced in an apply clause of a route-policy?

- A. tag
- B. IP-prefix
- C. origin
- D. community

118. The following is part of configuration on the router. Which of the following statements regarding the configuration is true?

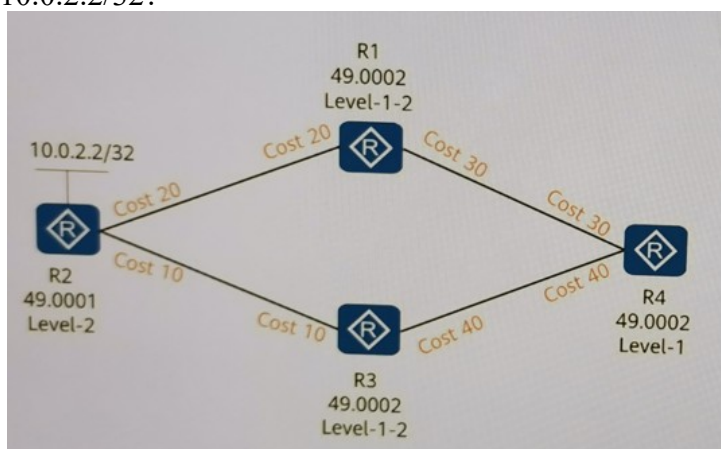
```
[HUAWEI]acl number 2001
[HUAWEI-acl-basic-2001]rule 0 permit source 1.1.1.1 0
[HUAWEI-acl-basic-2001]rule 1 deny source 1.1.1.0 0
[HUAWEI-acl-basic-2001]rule 2 permit source 1.1.0.0 0.0.255.255
[HUAWEI-acl-basic-2001]rule 3 deny
```

- A. Data packets with source IP address 1.1.1.1 match ACL rule 0, and the behavior for the packets is permit.
- B. Data packets with source IP address 1.1.1.2 match ACL rule 1. and the behavior for the packets is permit.
- C. Data packets with source IP address 1.1.1.3 match ACL rule 2. and the behavior for the packets is deny.
- D. Data packets with source IP address 1.1.1.4 match ACL rule 3. and the behavior for the packets is permit.

119. Which of the following description of the routing policy supported by OSPF route filtering is false:

- A. route-policy
- B. access-list
- C. prefix-list
- D. as-path filter

120. Four routers run IS-IS and have established adjacencies. The area IDs and router levels are marked in the following figure. Which of the following is the cost of the route from R4 to 10.0.2.2/32?



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

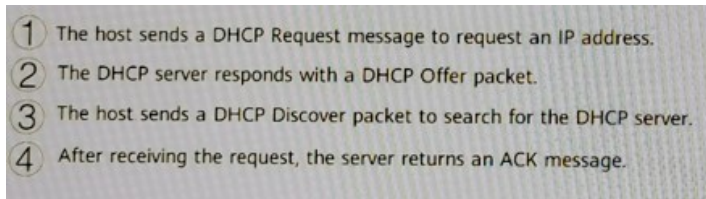
121. The VRID of the VRRP virtual router is 3 and the virtual IP address is 100.1.1.10. What is the virtual MAC address?

- A. 00-00-5E-00-01-64
- B. 00-00-5E-00-01-03
- C. 01-00-5E-00-01-64
- D. 01-00-5E-00-01-03

122. Which of the following statements regarding VRRP is false?

- A. The Virtual Router Redundancy Protocol (VRRP) is designed for networks with multicast and broadcast capabilities, such as Ethernet networks. VRRP ensures that the next hop router can be replaced by another router if it fails so that uninterrupted and reliable communication is guaranteed.
- B. When VRRP is used, the virtual router ID and virtual IP address need to be configured on the router, the MAC address of the master router is used, so a virtual router is added on the network.
- C. Hosts on the network communicate with the virtual router. There is no need to learn all information of physical routers on the network.
- D. A virtual router consists of one master router and several backup routers. The master router provides forwarding function. When the master router fails, a backup router becomes the new master router and takes over its work.

123. Which of the following is correct procedure for a DHCP client to apply for an IP address from a DHCP server?

- 
- ① The host sends a DHCP Request message to request an IP address.
 - ② The DHCP server responds with a DHCP Offer packet.
 - ③ The host sends a DHCP Discover packet to search for the DHCP server.
 - ④ After receiving the request, the server returns an ACK message.

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

124. Which of the following is not the function of NDP?

- A. Address resolution
- B. Duplicate address detection
- C. Neighbor state tracing
- D. Path MTU discovery

125. At which layer does a packet filtering firewall check data packets?

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

126. Which of the following statements regarding the stateful inspection firewall is true?

- A. The stateful inspection firewall needs to match the rules for each incoming packet.
- B. Because UDP is a connectionless protocol, so the stateful inspection firewall cannot match UDP packets with the status table.
- C. When the stateful inspection firewall checks packets, packets of one same connection are not correlated.
- D. The stateful inspection firewall only needs to match the first data packet against a rule, and the subsequent packets of the connection are matched directly in the state table.

127. The following is part of output information on router Huawei. Which of the following statements regarding the output information is false?

```
<HUAWEI>display pim interface GigabitEthernet 1/0/0 verbose
VPN-Instance: public net
Interface: GigabitEthernet1/0/0, 10.1.1.1
  PIM version: 2
  PIM mode: Sparse
  PIM state: up
  PIM DR: 10.1.1.2
  PIM DR Priority (configured): 1
  PIM neighbor count: 1
  PIM hello interval: 30 s
```

- A. GigabitEthernet 1/0/0 of the router runs PIMv2.
- B. GigabitEthernet 1/0/0 of the router runs PIM-SM.
- C. The PIM status on GigabitEthernet 1/0/0 of the router is Up.
- D. The DR address on the interface is 10.1.1.1.

128. Which of the following statements regarding the display bgp routing-table command output is true?

```
<HUAWEI>display bgp routing-table

BGP Local router ID is 192.168.2.1
Status codes: * - valid, > - best, d - damped,
               h - history, i - internal, s - suppressed, S - Stale
Origin : i - IGP, e - EGP, ? - incomplete

Network          NextHop    MED      LocPrf  PrefVal Path/Ogn
*> 192.168.1.0/24  10.1.1.1   0         0        100i
```

- A. The route to the destination address 192.168.1.0 is injected into the BGP routing table using the network command.
- B. The route to the destination address 192.168.1.0 is learned through AS 200.
- C. The route to the destination address 192.168.1.0 is not the optimal route in the BGP routing table.
- D. The MED value of the route to the destination address 192.168.1.0 is 100.

129. BGP peer relationship establishment needs to undergo the following states. Which is the correct sequence during successful connection establishment?

```
1.Active
2.OpenConfirm
3.Idle
4.Establish
5.OpenSent
```

- A. 3-1-5-2-4
- B. 3-5-1-2-4
- C. 1-3-5-2-4
- D. 3-1-2-5-4

130. Which of the following statements regarding the OSPF protocol is false?

- A. Each OSPF router uses only one Router-LSA to describe the local active connection status of an area.
- B. Router-LSA describes four connection types: P2P, TransNet, SubNet, and virtual link.
- C. Link State ID in a Type 3 LSA indicates the router ID of an ABR.
- D. Routing information can be advertised only between backbone and non-backbone areas and cannot be advertised directly between non-backbone areas.

131. Which of the following addresses is used by an AC to establish a CAPWAP tunnel in VRRP HSB mode?

- A. Physical IP address of the active AC
- B. Physical IP address of the standby AC
- C. VRRP virtual IP address of the active and standby ACs
- D. Any IP address configured on the AC

132. Which of the following scenarios is the SD-WAN solution applicable to?

- A. Enterprise branch interconnection
- B. Enterprise wireless network deployment
- C. Internal interconnection of enterprise DCN

133. A medium-sized campus network is managed using SNMP and has high security requirements. Which SNMP version is recommended for management?

- A. SNMPv1
- B. SNMPv2c
- C. SNMPv3
- D. All of the above

134. The preceding figure shows an IP packet header. Which of the following statements is true?

Internet Protocol Version 4, Src: 10.0.0.1, Dst: 10.0.0.2
0100 = Version: 4
.... 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
Total Length: 180
Identification: 0x006b (107)
Flags: 0x0000
Time to live: 255
Protocol: 51
Header checksum: 0xa6a9 [validation disabled]
[Header checksum status: Unverified]
Source: 10.0.0.1
Destination: 10.0.0.2

- A. This is an IPsec VPN packet and the data part of the packet is encrypted.
- B. The protocol number is 51, indicating that the AH header follows the IP header
- C. The protocol number is 51, indicating that the ESP header follows the IP header
- D. The packet must be an AH encapsulated only IPsec VPN packet

135. Which of the following is not a role of a switch in a stack system?

- A. Master switch
- B. Standby switch
- C. Slave switch
- D. Candidate switch

136. Which of the following statements regarding rendezvous point (RP) on a PIM-SM network is false?

- A. An RP forwards all multicast streams in the shared tree to receivers.
- B. RP can be responsible for several or all multicast group forwarding data, a network can have an RP.
- C. An RP can serve multiple multicast groups simultaneously, and each multicast group can be served by multiple RPs.
- D. Multicast packets sent from a multicast source to all receivers of a group are aggregated on the RP.

137. Which of the following statement regarding IBGP and EBGP peers is false?

- A. Two BGP-running routers must have IP connectivity if they need to establish a TCP connection.
- B. If two BGP peers exchanging BGP messages belong to the same AS, the two peers are IBGP peers.
- C. If two BGP peers exchanging BGP messages belong to different ASs, the two peers are EBGP peers.
- D. IBGP peers must be physically directly connected.

138. If a router receives two BGP routes carrying the following attributes, which of the following statements is true according to BGP route selection rules?

Network	NextHop	MED	LocPrf	PrefVal	Path/Ogn
M 192.168.1.0	10.1.1.1	30		0	100 i
N 192.168.1.0	10.1.1.2	20		0	100 200i

- A. The optimal route is route M because its MED value is larger than that of route N.
- B. The optimal route is route N because its MED value is smaller than that of route M.
- C. The optimal route is route M because its AS_Path is shorter than that of route N.
- D. The optimal route is route N because its AS_Path is longer than that of route M.

139. The peer default-route-advertise command is executed on a BGP router to advertise a default route to neighboring routers. Which of the following statements regarding the change of local BGP routing table is true?

- A. An inactive default route will be generated in the local BGP routing table, but this route will not be delivered to the IP routing table.
- B. An active default route will be generated in the local BGP routing table and delivered to the IP routing table.
- C. No default route will be generated in the local BGP routing table.
- D. A default route will be generated in the local BGP routing table. Whether the default route will be delivered to the IP routing table depends on the route selection result.

140. Which of the following statements regarding the LSA header information in AS-External-LSA is false?

- A. Link State ID indicates a destination network address.
- B. Advertising Router indicates the router ID of an ASBR.
- C. Net mask indicates the network mask of the destination network segment.
- D. Forwarding Address is always 0.0.0.0.

141. Which of the following statements regarding OSPF neighbor information is false?

```
<RTA>display OSPF peer
      OSPF Process 1 with Router ID 1.1.1.1
      Neighbors
Area 0.0.0.0 interface 10.1.1.1(Ethernet0/0/0)'s neighbors
Router ID: 2.2.2.2      Address: 10.1.1.2
State: Full  Mode:Nbr is Master Priority: 1
DR: 10.1.1.1  BDR: 10.1.1.2  MTU: 0
Dead timer due in 40 sec
Retrans timer interval: 5
Neighbor is up for 00:00:12
Authentication Sequence: [ 0 ]
```

- A. The router ID of the local router is 1.1.1.1
- B. The router ID of the neighbor is 2.22.2.
- C. The DR address is 10.1.11.
- D. The local router is the master.

142. In an IS-IS broadcast network, which multicast MAC address is used by a Level-1 router as the destination address of sent IS-IS Hello packets?

- A. 0180-c200-0014
- B. 0180-C200-0015
- C. 0180-c200-0000
- D. 0100-5E00-0001

143. Which of the following statements regarding IGMPv3 is false?

- A. It serves the SSM model
- B. It allows hosts to specify the source networks and groups of data they want to receive
- C. It improves the control capability of hosts, enabling them to specify not only the multicast groups they want to join but also the multicast sources from which they want to receive data
- D. The response and query mechanisms of IGMPv3 are the same as those in IGMPv1

144. Which of the following statements regarding Update messages is false?

- A. Update messages contain path attributes.
- B. Update messages contain reachable route prefix information.
- C. Update messages contain local AS number.
- D. Update messages contain withdrawn route prefix information.

145. Which of the following statements regarding OSPF neighbor relationship and adjacency is true?

- A. OSPF routers must establish an adjacency before exchanging information.
- B. Not all neighbors can establish adjacencies.
- C. Adjacencies are maintained using OSPF DD packet.
- D. Neighbor relationships are selected from adjacencies to exchange routing information.

146. Which of the following statements about IS-IS is false?

- A. IS IS supports CLNP networks.
- B. IS-IS supports IP networks.
- C. IS-IS packets are directly encapsulated at the data link layer.
- D. IS IS is a link state protocol running between ASs.

147. A local router runs IS-IS and its command output is shown in the following figure. Which of the following statements is true?

```
<R1>display isis interface verbose
Interface information for ISIS(1)
-----
Interface    Id    IPV4.State    IPV6.State    Type DIS
S4/0/0      001    Up            Down          L1   --
Circuit MT State : Standard
IP Address       : 10.0.12.1
Csnp Timer Value : L12 10
Hello Timer Value : 10
DIS Hello Timer Value :
Hello Multiplier Value : 3
Cost            : L1 10 L2 10
Ipv6 Cost       : L1 10 L2 10
Retransmit Timer Value : L12 5
Extended-Circuit-Id Value : 0000000001
```

- A. The circuit level of S4/0/0 is Level-1.
- B. S4/0/0 sends IIH packets at the interval of 30s.
- C. S4/0/0 supports IPv6.
- D. The cost of S4/0/0 is 20.

MULTIPLE CHOISE

1. Which of the following statements about WLAN roaming are true?

- A. APs for roaming must be in the same basic service set (BSS).
- B. APs for roaming must be in the same extended service set (ESS).
- C. APs for roaming must have overlapping signal coverage.
- D. APs for roaming do not need to have overlapping signal coverage.

2. Which of the following statements about free mobility are true?

- A. The administrator can use iMaster NCE to centrally manage service policies on network-wide policy enforcement devices.
- B. iMaster NCE is not only the authentication center on a campus network, but also the management center of service policies.
- C. The administrator does not need to consider IP addresses of users when configuring policies.
- D. The administrator does not need to configure devices one by one.

3. Which of the following statements regarding the VRRP backup are true?

- A. When the VRRP backup receives VRRP packet from the VRRP master, it can determine whether the master is in the normal state.
- B. When receiving VRRP packets with the priority of 0, the backup directly switches to be the master.
- C. The backup discards IP packets destined for the virtual MAC address.
- D. The backup responds to IP packets destined for the virtual IP address.

4. Which of the following functions can be implemented by Huawei iMaster NCE?

- A. Network automation
- B. Management of other vendors' devices
- C. Predictive maintenance based on big data and AI
- D. Provisioning of various open APIs

5. What parameters can a DHCPv6 server assign to a DHCPv6 client?

- A. IPv6 address/prefix
- B. DNS server address
- C. Gateway address
- D. SNTP server address

6. Which of the following statements regarding the trusted and untrusted zones are true?

- A. The direction for the access from the trusted zone to the untrusted zone is the outbound direction.
- B. The direction for the access from the trusted zone to the untrusted zone is the inbound direction.
- C. The security level of the trusted zone is 85.
- D. The security level of the untrusted zone is 50.

7. RSTP provides faster convergence than STP. What are causes?

- A. RSTP defines the edge port role. The edge port does not receive and process configuration BPDUs, and not participate in RSTP calculation. The edge port can directly change from the Disable state to the Forwarding state
- B. When the root port fails, the optimal alternate port will become the root port and enter the Forwarding state
- C. In RSTP, when a port is elected as the designated port, it enters the Discarding state. Then the port immediately enters the Forwarding state through the Proposal/Agreement mechanism
- D. When the designated port fails, the optimal alternate port will become the designated port and enter the Forwarding state

8. Which of following are functions of Hello messages on a PIM-SM network?

- A. Establish and maintain neighbor relationship
- B. Capability negotiation between neighboring routers
- C. BDR election on a network segment
- D. Registration with the RP

9. RTA is the source designated router (DR), and RTB is the rendezvous point (RP). The multicast source sends multicast data to RTA, however, RTB does not have the multicast source information of Register packet. Which of the following are the possible causes?

- A. There is no unicast route from RTB to RTA.
- B. RTA cannot learn the RP information.
- C. There is no multicast route from RTA to RTB.
- D. The RP learned by RTA is not RTB.

10. Which of the following parameters are not mandatory during the configuration of a BGP peer?

- A. Peer IP address
- B. description
- C. as-number
- D. password

11. Error Code 2 in a BGP Notification message indicates an Open message error. Which of the following error subcodes are included in Error Code 2?

- A. 1: unsupported version number
- B. 2: incorrect peer AS number
- C. 3: incorrect BGP router ID
- D. 4: incorrect attribute list

12. In a route-policy, which of the following BGP attributes can be used in apply clauses?

- A. Local-Preference
- B. Tag
- C. MED
- D. AS Path

13. A route-policy can have multiple nodes, and each node can have multiple if-match and apply clauses. Which of the following statements are false?

- A. The operator between nodes is OR.
- B. The operator between nodes is AND.
- C. The operator between if-match clauses under a node is AND.
- D. The operator between if-match clauses under a node is OR.

14. An advanced ACL is a series of ordered rules with permit or deny clauses. Which of the attributes can be used in ACL rules to describe IP packets?

- A. Source IP address
- B. Destination IP address
- C. Port number
- D. ICMP packet type and message code

15. See the command output of a router below. Which of the following statements are true?

```
<R1>display ospf interface GigabitEthernet 0/0/0
      OSPF Process 1 with Router ID 10.1.1.1
Interface: 10.0.12.1 (GigabitEthernet0/0/0)
Cost: 1      State: DR      Type: Broadcast    MTU: 1500
Priority: 1
Designated Router: 10.0.12.1
Backup Designated Router: 10.0.12.2
Timers: Hello 10 , Dead 40 , Poll 120 , Retransmit 5 , Transmit Delay 1
```

- A. The router ID is 10.1.1.1.
- B. The interface IP address is 10.1.12.1.
- C. The router is a DR.
- D. The network type of the interface is broadcast.

16. Which of the following LSAs are advertised only within a single area?

- A. Router LSA
- B. Network LSA
- C. Summary LSA
- D. AS External LSA

17. A router runs IS-IS and the format of the Hello packet sent by the router is shown in the following figure. Which of the following statements are true?

```
Intra Domain Routing Protocol Discriminator: ISIS (0x83)
PDU Header Length: 27
Version (==1): 1
System ID Length: 6
PDU Type      : L2 HELLO (R:000)
Version2 (==1): 1
Reserved (==0): 0
Max.AREAs: (0==3): 3
ISIS HELLO
Circuit type      : Level 2 only, reserved(0x00 == 0)
System-ID {Sender of PDU} : 0050.0600.7008
Holding timer: 30
PDU length: 1497
Priority          : 64, reserved(0x00 == 0)
System-ID {Designated IS} : 0050.0600.7008.02
Area address(es) (4)
Area address (3): 00.0001
IP Interface address(es) (4)
IPv4 interface address: 10.6.7.8 (10.6.7.8)
```

- A. The system ID of the router is 0050.0600.7008.
- B. The area ID of the router is 00.0001.
- C. The router is a Level-1-2 router.
- D. The interface IP address of the router is 10.6.7.8.

18. Which of the following statements regarding IS-IS characteristics are true?

- A. Router-level division is not supported, such as Level-1 Level-2 Level-1-2
- B. IS-IS packets are encapsulated at the data link layer
- C. IS-IS is suitable for large-capacity route transmission
- D. IS-IS has good scalability

19. A monitoring plane usually comprises the monitoring units of main control boards and interface boards. This plane can monitor the system environment independently. Which of the following environment monitoring functions can be provided by the monitoring plane?

- A. Voltage monitoring
- B. System power-on and power-off control
- C. Temperature monitoring
- D. Fan control

20. Which of the following statements about Layer 2 and Layer 3 roaming are true?

- A. After Layer 3 roaming is performed, the VLAN IDs in the service sets of APs must be the same.
- B. Layer 2 roaming can be determined as long as the VLAN IDs before and after roaming are the same.
- C. Layer 2 roaming indicates that STAs roam within the same subnet.
- D. Layer 3 roaming indicates that STAs roam between different subnets.

21. Which of the following models are Huawei's data center switches?

- A. CloudEngine S12700E
- B. CloudEngine 16800
- C. CloudEngine 12800
- D. NetEngine AR6121

22. Which of the following statements regarding the characteristics of HA network are true?

- A. Faults cannot occur frequently.
- B. Faults can be recovered rapidly.
- C. No fault occurs.
- D. When faults occur, services can be only restored manually.

23. Which of the following statements regarding VRRP load balancing are true?

- A. Multiple virtual routers can be configured on an interface of a router so that the router functions as the master of the virtual router and the backup of another virtual router.
- B. In load balancing mode, multiple routers transmit service at the same time, so at least two or more virtual routers are required.
- C. In load balancing mode, two or more VRRP groups are created, and multiple routers transmit services.
- D. During priority configuration, the VRRP master of the three virtual routers can be on different routers.

24. Which of the following protocols can be used by a network administrator to configure network devices?

- A. SSH
- B. SNMP
- C. LLDP
- D. NETCONF

25. Which of the following parameters are used in a firewall security policy to match traffic?

- A. Source IP address
- B. Source security zone
- C. Application
- D. Packet size

26. On a network, some switches are enabled with RSTP and some switches are enabled with STP. What will happen?

- A. STP and RSTP calculation are performed independently.
- B. STP and RSTP is compatible each other, but the rapid convergence of RSTP is unavailable.
- C. A Huawei switch changes from RSTP to STP. After the STP-enabled switch is removed from the network, the RSTP-enabled switch can be moved back to the RSTP mode.
- D. A Huawei switch changes its mode from STP to RSTP. After the RSTP-enabled switch is removed from the network, the STP-enabled switch can be moved back to the RSTP mode.

27. Which of the following statements regarding IGMP snooping are true?

- A. IGMP snooping prevents multicast packets from being broadcast at Layer 3.
- B. IGMP snooping is a multicast restraint mechanism that runs on Layer 2 Ethernet switches to manage and control multicast groups.
- C. IGMP snooping creates a multicast MAC address table by listening to IGMP packets sent from hosts.
- D. IGMP snooping does not consume CPU resources of switch.

28. Which of the following are the differences between IGMP versions?

- A. IGMPv1 and IGMPv2 do not support querier election, but IGMPv3 does.
- B. IGMPv2 and IGMPv3 allow users to leave a group proactively, whereas IGMPv1 does not.
- C. None of IGMPv1, IGMPv2, and IGMPv3 supports the SSM model.
- D. IGMPv1 does not support group-specific query, whereas IGMPv2 does.

29. Which of the following statements about BGP loop prevention are correct?

- A. If the AS-Path attribute received from an EBGP peer contains local AS number, the route is rejected
- B. A non-RR BGP router does not advertise any update information from an IBGP peer to other IBGP peers
- C. Any route from an IBGP peer is advertised to other IBGP peers
- D. A BGP router does not advertise any update information from an EBGP peer to its EBGP peer

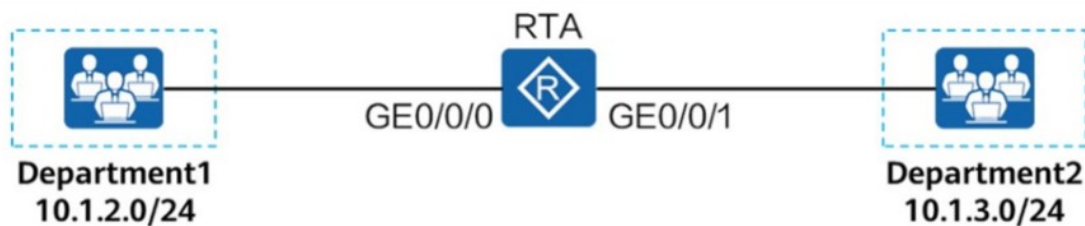
30. Which of the following statements regarding well-known attributes in BGP are true?

- A. Well-known attributes include well-known mandatory attributes and well-known transitive attributes.
- B. BGP must identify all well-known attributes.
- C. Well-known mandatory attributes can be identified by all BGP routers and must be carried in Update messages.
- D. Well-known discretionary attributes can be identified by all BGP routers but do not necessary to be carried in Update messages.

31. Which of the following configuration can enable indirectly connected EBGP peers to establish a connection normally?

- A. peer connect-interface
- B. peer ebgp-max-hop
- C. peer ignore
- D. peer as-number

32. GE0/0/0 and GE0/0/1 on RTA connect to departments 1 and 2 and their network segments are 10.1.2.0/24 and 10.1.3.0/24, respectively. To disable mutual access between these departments, a traffic-filter is deployed on RTA. Which of the following statements are true?



- A. Configure ACL 3000 to reject traffic with source address 10.1.2.0/24 and destination address 10.1.3.0/24. On GE0/0/0, apply ACL 3000 to the inbound traffic-filter.
- B. Configure ACL 3000 to reject traffic with source address 10.1.2.0/24 and destination address 10.1.3.0/24. On GE0/0/1, apply ACL 3000 to the outbound traffic-filter.
- C. Configure ACL 3000 to reject traffic with source address 10.1.3.0/24 and destination address 10.1.2.0/24. On GE0/0/0, apply ACL 3000 to the outbound traffic-filter.
- D. Configure ACL 3000 to reject traffic with source address 10.1.3.0/24 and destination address 10.1.2.0/24. On GE0/0/1, apply ACL 3000 to the inbound traffic-filter.

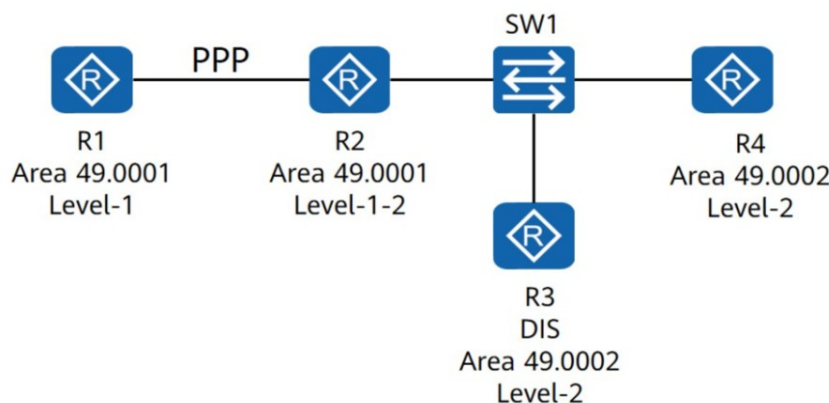
33. Which of the following statements regarding an IP prefix are true?

- A. An IP prefix filter is used to filter IP address prefixes and can match an IP prefix number and a prefix length at the same time.
- B. An IP prefix filter is used to filter IP address prefixes and cannot match an IP prefix number and a prefix length at the same time.
- C. An IP prefix filter cannot be used to filter data packets.
- D. An IP prefix filter can be used to filter data packets.

34. Which of the following statements regarding Network-Summary-LSA are true?

- A. Link State ID in Network-Summary-LSA is set as the destination network IP address.
- B. Net mask in Network-Summary-LSA is set as the network mask of the destination network segment.
- C. Metric in Network-Summary-LSA is set the cost of a route from an ABR to a destination network segment.
- D. Network-Summary-LSA is generated by an ASBR.

35. Four routers run IS-IS and have established adjacencies. The area IDs and router levels are marked in the following figure. R1 and R2 are connected through a PPP link, and R3 is the DIS. Which of the following statements are true?



- A. If R1 sends an LSP, R2 needs to send a PSNP for acknowledgment.
- B. If R2 sends a Level-2 LSP, R3 needs to send a PSNP for acknowledgment.
- C. R2 sends an LSP to R3 and R4 in unicast mode.
- D. R3 periodically sends CSNPs to implement level-2 LSDB synchronization

36. A local router runs IS-IS, and its command output is shown in the following figure. Which of the following statements are true?

<R2>display isis peer

Peer information for ISIS(1)

System Id	Interface	Circuit Id	State	HoldTime	Type	PRI
0100.0000.1001	S4/0/0	0000000001	Up	28s	L1L2	--
3003.0000.3000	GE0/0/0	0002.0200.2002.01	Up	24s	L1(L1L2)	64
3003.0000.3000	GE0/0/0	0002.0200.2002.01	Up	24s	L2(L1L2)	64

- A. Only a Level-1 neighbor relationship is established on S4/0/0 of the local router.
- B. Only a Level-1 neighbor relationship is established on GE0/0/0 of the local router.
- C. Both Level-1 and Level-2 neighbor relationships are established on S4/0/0 of the local router.
- D. Both Level-1 and Level-2 neighbor relationships are established on GE0/0/0 of the local router.

37. Which of the following fields are contained in the FIB of a router?

- A. Destination/Mask
- B. Protocol
- C. Cost
- D. TimeStamp

38. Which of the following statements about a DHCP server on a large-scale Layer 3 WLAN are false?

- A. APs can obtain the AC's IP address from a DHCP server using Option 60.
- B. APs can obtain the AC's IP address from a DHCP server using Option 43.
- C. An independent DHCP server is recommended.
- D. The AC is recommended as a DHCP server.

39. Which of the following statements about BFD operating modes are true?

- A. Asynchronous mode is the primary BFD operating mode.
- B. Asynchronous mode does not support the Echo function.
- C. In demand mode, once a BFD session is set up, the system no longer periodically sends BFD Control packets.
- D. In asynchronous mode. Two systems periodically exchange BFD Control packets at tire negotiated interval. If one system does not receive any BFD Control packets from the other within the detection time, the BFD session is declared down.

40. Which of the following statements about VRRP version is true?

- A. VRRPv2 supports authentication.
- B. VRRPv2 applies only to IPv4.
- C. VRRPv3 applies only to IPv6.
- D. VRRPv3 does not support authentication.

41. Which of the following statements is true about the options field in DHCP packets?

- A. The options field consists of three parts: Type, Length, and Value.
- B. Option 82 is also known as the relay agent information option, which records the VLAN ID of the switch port connected to a DHCP client
- C. The Option 82 field does not carry the MAC address of a DHCP relay agent.
- D. Option 82 can contain a maximum of 256 sub-options.

42. Which of the following dynamic routing protocols can be applied to IPv6 networks?

- A. IS-ISv6
- B. OSPFv3
- C. BGP6
- D. IS-IS

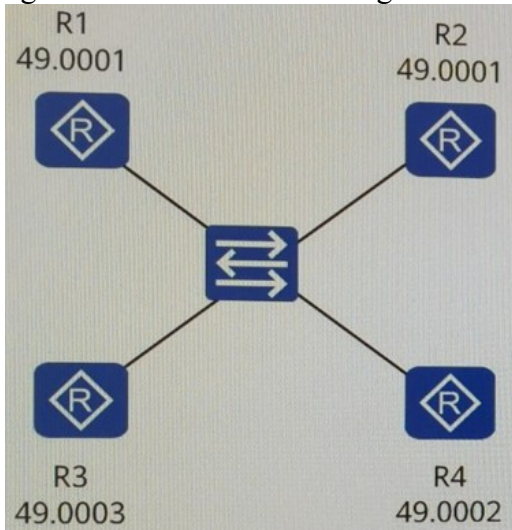
43. A firewall receives a packet that PC1 sends to PC2. Which of the following statements are true?



- A. The packet matches security policy rule 1.
- B. The packet matches security policy rule 2. and the firewall forwards the packet.
- C. The packet does not match security policy rules 1 and 2. The firewall considers that the packet matches the default security policy and forwards the packet.
- D. The default security policy on a firewall is to match all packets and the action is deny.

44. Which of the following statements about the Multiple Spanning Tree Protocol (MSTP) are true?
- A. Compared with RSTP, MSTP has more port roles.
 - B. The BPDU format of MSTP is the same as that of RSTP.
 - C. MSTP can implement load balancing among VLANs.
 - D. MSTP is compatible with RSTP.
45. Which of the following PIM protocol packets have unicast destination addresses?
- A. Assert
 - B. Bootstrap
 - C. Register Stop
 - D. Graft
46. Which of the following statements regarding the MED attribute in BGP are true?
- A. The MED attribute is an optional non-transitive attribute.
 - B. The MED attribute affects the traffic sent out from an AS.
 - C. The MED attribute can only be transmitted within the local AS.
 - D. The default MED value is 0.
47. Which of the following attributes meet these conditions: A BGP router may not support these attributes but still accepts and transmits them to other BGP peers.
- A. Aggregator
 - B. Local Pref
 - C. Multi_Exit Disc
 - D. Community
48. Which of the following route prefixes match the IP prefix below?
- ```
[HUAWEI]ip ip-prefix test index 10 permit 20.0.0.0 16 greater-equal 24 less-equal 28
```
- A. 20.0.1.0/23
  - B. 20.0.1.0/24
  - C. 20.0.1.0/25
  - D. 20.0.1.0/28
49. Which of the following statements regarding OSPF commands are false?
- A. The difference in configuring a stub area and a totally stub area is that the no-summary parameter is specified in the totally stub area configuration.
  - B. The stub router command is used to configure the router as a stub router. The stub router can form a neighbor relationship with a non-stub router.
  - C. In the OSPFv3 configuration, the router-id command no need to be used to configure a router ID for a router. The configuration is the same as that of OSPFv2.
  - D. The difference between OSPFv2 and OSPFv3 configuration interface commands is that OSPFv2 uses the network command and OSPFv3 is enabled directly on the interface.
50. Which of the following statements regarding OSPF route summarization commands are true?
- A. advertise is the default parameter of the abr-summary command. That is, if not-advertise is not specified in the abr-summary command, the advertise parameter takes effect by default.
  - B. not-advertise is the default parameter of the abr-summary command. That is, if advertise is not specified in the abr-summary command, the not-advertise parameter takes effect by default.
  - C. The abr summary command is executed in the OSPF area view.
  - D. The asbr summary command is executed in the OSPF view.

51. Four routers run IS-IS and are all Level 1-2 routers. Their area IDs are shown in the following figure. Which of the following statement are true?



- A. R1 and R2 can only establish a Level-1 neighbor relationship.
- B. R1 and R3 can only establish a Level-2 neighbor relationship.
- C. R1 and R4 can only establish a Level-2 neighbor relationship.
- D. R3 and R4 can establish both a Level-1 and a Level-2 neighbor relationships.

52. Which of the following statements about the AC's mobility group are false?

- A. STAs can roam only between ACs in the same mobility group.
- B. ACs in the same mobility group encapsulate and transmit roaming information over the DTLS extended tunnel.
- C. The mobility server must be an AC in the local mobility group.
- D. A mobility server needs to be specified for member ACs in a mobility group.

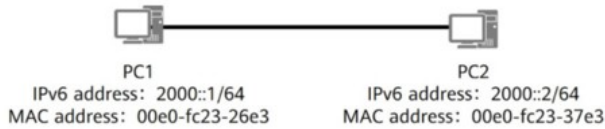
52. Which of the following configurations are not mandatory when an administrator configures VRRP?

- A. Virtual IP address
- B. Virtual router priority
- C. Preemption mode
- D. Preemption delay

53. Which of the following protocols can be associated with BFD?

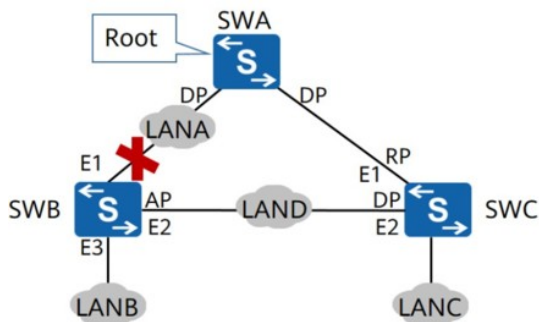
- A. VRRP
- B. OSPF
- C. BGP
- D. Static route

54. As shown in the figure, PC1 and PC2 are on the same network segment. Which of the following statements are true about IPv6 neighbor states between PC1 and PC2?



- A. Five neighbor states may exist between PC1 and PC2: Incomplete, Reachable, Stale, Delay, and Probe.
- B. If the MAC address of PC2 can be obtained on PC 1, the neighbor state must be Reachable.
- C. If the MAC address of PC2 can be obtained on PC 1, the neighbor state may be Stale.
- D. If the MAC address of PC2 can be obtained on PC 1, the neighbor state may be Probe.

55. On the network shown in the figure, all switches run RSTP. When E1 interface on SWB fails, how does RSTP process the failure?



- A. SWB deletes MAC address entries in which the E1 interface is the destination interface
- B. The spanning tree is recalculated and E2 interface of SWB is selected as the new root port
- C. All the ports which in Forwarding state send BPDUs with the TCN, notifying the topology change on other networks
- D. All the non-edge-ports in Forwarding state send BPDUs with the TCN, notifying topology change on ...

56. Which of the following statements regarding IGMPv1 and IGMPv2 are true?

- A. IGMPv1 does not define the IGMP Leave message type.
- B. IGMPv2 defines the Leave message type.
- C. IGMPv1 supports general query.
- D. IGMPv2 supports only general query.

57. Which of the following statements regarding the any-source multicast (ASM) and source-specific multicast (SSM) models are true?

- A. In the SSM model, the receiver hosts have obtained the specific location of the multicast source in advance by other methods.
- B. In the ASM model, receiver hosts cannot obtain locations of multicast sources in advance.
- C. The SSM model and ASM model use the same multicast group address range.
- D. In the SSM model, a multicast distribution tree is established directly between a multicast source and its receiver hosts.

58. Which of the following statements regarding well-known discretionary attributes are true?

- A. All BGP routers must identify these attributes.
- B. These attributes must be transmitted between BGP peers.
- C. These attributes do not necessary to be carried in Update messages, and BGP routers can determine whether to carry them in Update messages.
- D. These attributes do not necessary to be transmitted between BGP peers.

59. Which of the following BGP attributes are not mandatory in Update messages?

- A. Origin
- B. MED
- C. Local-Preference
- D. AS\_PATH

60. Which of the following statements regarding Local-Preference in BGP are true?

- A. According to BGP route selection rules, Preferred-Value has a higher priority than Local-Preference. That is, during route selection, BGP compares Preferred-Values of routes first.
- B. The default Local-Preference value of BGP routes is 100.
- C. Local-Preference is often used to control traffic that enters an AS.
- D. According to BGP route selection rules, MED has a higher priority than Local-Preference. That is, during route selection, BGP compares the MED values of routes first.

61. Which of the following routing protocols support the default route through command configuration?

- A. ICMP
- B. OSPF
- C. ISIS
- D. BGP

62. Which of the following statements regarding routing policy and policy-based routing are true?

- A. Policy based routing is used to control packet forwarding without following routes in the routing table.
- B. A routing policy is used to control import, advertisement, and receiving of routing information.
- C. A routing policy is used to control packet forwarding without following routes in the routing table.
- D. Policy-based routing is used to control import, advertisement, and receiving of routing information.

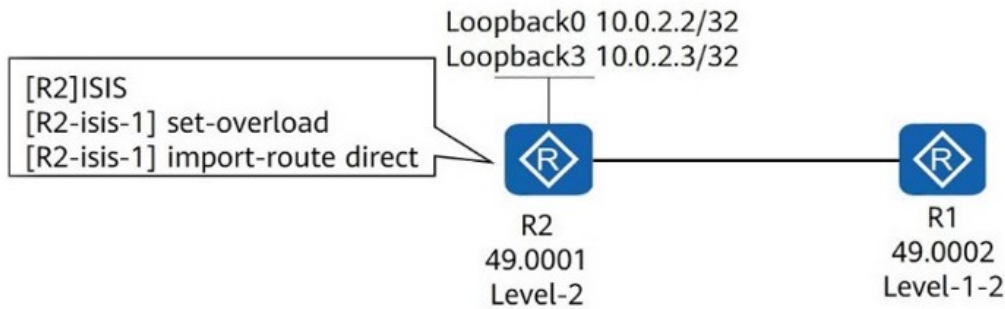
63. Which of the following packet types are OSPF packets?

- A. Hello
- B. Database Description
- C. Link State Request
- D. Link State DD

64. Which of the following Hello packets are used in IS-IS?

- A. Level-1 LAN IIH
- B. Level-2 LAN IIH
- C. Level-3 LAN IIH
- D. P2P LAN IIH

65. See the network shown in the following figure. R1 and R2 run IS-IS, and establish an adjacency. IS-IS is enabled on Loopback0 of R2 but disabled on Loopback3 of R2. The configurations shown in the figure are performed in the IS-IS process of R2. Which of the following statements are true?



- A. The routing table of R1 does not contain the routes 10.0.2.2/32 and 10.0.2.3/32.
- B. The routing table of R1 contains the route 10.0.2.3/32.
- C. The routing table of R1 contains the route 10.0.2.2/32.
- D. The routing table of R1 does not contain the route 10.0.2.3/32.

66. Which of the following methods can be used to collect traffic statistics?

- A. NetStream
- B. SNMP
- C. Port mirroring
- D. IP packet statistics collection

67. Which of the following statements about BFD applications are true?

- A. Single-hop BFD checks the IP connectivity between two directly connected systems.
- B. Multi hop BFD monitors all paths between two systems. The paths may span multiple hops or partially overlap.
- C. One-arm BFD Echo checks the connectivity of a forwarding link through the loopback of BFD packets. Specifically, the BFD-incapable device directly connected to a BFD-capable device loops back BFD packets initiated by the BFD-capable device.
- D. BFD for OSPF associates a BFD session with OSPF. The BFD session quickly detects and notifies OSPF if a link fault occurs in order to speed up OSPF's response to network topology changes.

68. Which of the following statements about the application of Option 43 in the ge0/0/1 backup networking are true?

- A. After Option 43 is configured, an AP only unicasts Discovery Request messages to the AC's IP addresses carried in Option 43.
- B. If the AC with the IP address carried in Option 43 does not respond to the Discovery Request message, the AP fails to discover the AC immediately.
- C. The Option 43 field needs to carry the IP addresses of the active and standby ACs for the AP as well as the IP addresses of other active ACs.
- D. The command for configuring the Option 43 field of the DHCP server to carry the IP addresses of the active and standby ACs is "option 43 sub-option 2 ip-address ip-address &<1-8>"

69. Which mechanism can be used with VRRP to monitor the uplink connectivity?

- A. Association with an interface
- B. BFD
- C. NQA
- D. IP link

70. Some transition technologies emerge during the evolution from IPv4 networks to IPv6 networks. Which of the following are common transition technologies?

- A. Dual-stack technology
- B. Tunneling technology
- C. Compatibility technology
- D. Translation technology

71. Which of the following values can be used to set security levels of user-defined zones of USG series firewalls?

- A. 150
- B. 100
- C. 80
- D. 40

72. Which of the following BGP attributes are not mandatory in Update messages?

- A. Origin
- B. MED
- C. Local-Preference
- D. AS PATH

73. When a routing policy is used to filter routes, which of the following route prefixes will be denied by the IP prefix below.

```
[HUAWEI]ip ip-prefix aa index 10 permit 1.1.1.1 24 greater-equal 26 less-equal 32
```

- A. 1.1.1.1/24
- B. 1.1.1.1/32
- C. 1.1.1.1/26
- D. 1.1.1.2/16

74. This configuration is the part of RTA configuration. Which of the following statements regarding the configuration are true?

```
[RTA]ospf 100
[RTA-ospf-100]silent-interface GigabitEthernet 1/0/0
```

- A. GigabitEthernet 1/0/0 is prohibited from sending OSPF packets.
- B. This interface cannot send Hello packets.
- C. Direct routes of GigabitEthernet 1/0/0 can still be advertised.
- D. RTA cannot establish a neighbor relationship with the neighbor that this interface is directly connected to.

75. Which of the following statements regarding OSPF AS-External-LSA are true?

- A. Link State ID is set as an address on the destination network segment.
- B. Advertising Router is set as the router ID of an ASBR.
- C. Net mask is set to all 0s.
- D. Link State ID and Advertising Router can uniquely identify an AS-External-LSA.

76. The LSP information of R4 on an IS-IS network is shown in the following figure. Which of the following statements are true?

```
<R4>display isis lsdb 4004.0000.0004.00-01 verbose

Database information for ISIS(1)

Level-2 Link State Database

LSPID Seq Num Checksum ATT/P/OL

4004.0000.0004.00-01* 0x00000001 0x3f11 0/0/0
SOURCE 4004.0000.0004.00
IP-External 10.0.4.4 255.255.255.255 COST: 64

Total LSP(s): 1
*(In TLV)-Leaking Route, *(By LSPID)-Self LSP, +-Self LSP(Extended),
```

- A. The system ID of R4 is 4004.0000.0004.
- B. The LSP is generated by a pseudo node.
- C. The external route described by the LSP is 10.0.4.4/32.
- D. The cost of R4 to this external route is 64.

77. Route import refers to the operation of advertising routing information from one routing protocol to another. Which of the following statements about route import are true?

- A. Route import enables routing information to be transmitted between different routing protocols.
- B. When importing routes, you can deploy route control to flexibly control service traffic.
- C. All routing protocols themselves can prevent loops. Therefore, you do not need to consider the loop problem during route import.
- D. When importing routes, note that the route priorities of the same routing protocol may be different among vendors.

78. RSTP defines different ports compared with STR Which of the following ports cannot work in forwarding state?

- A. Root port
- B. Designated port
- C. Backup port
- D. Alternate port

79. Which of the following statements about IGMP proxy are true?

- A. IGMP proxy is usually deployed on a Layer 3 device between the IGMP querier and member hosts.
- B. IGMP proxy can be associated with NQA to monitor the link status and implement a rapid primary/backup link switchover.
- C. An IGMP proxy-capable device cannot send Query messages to downstream hosts to maintain group memberships on behalf of an IGMP querier
- D. The downstream interface of an IGMP proxy-capable device generates (S, G) multicast forwarding entries based on information about hosts joining or leaving multicast groups

80. Which of the following statements regarding IGMPv1 and IGMPv2 are true?

A. IGMPv1 does not define the IGMP Leave message type.

B. IGMPv2 defines the Leave message type.

C. IGMPv1 supports general query.

D. IGMPv2 supports only general query.

81. OSPF supports multiple network types. Which of the following network types require DR and BDR to be elected?

A. P2P

B. NBMA

C. P2MP

D. Broadcast

82. Which of the following protocols are multi-channel protocols?

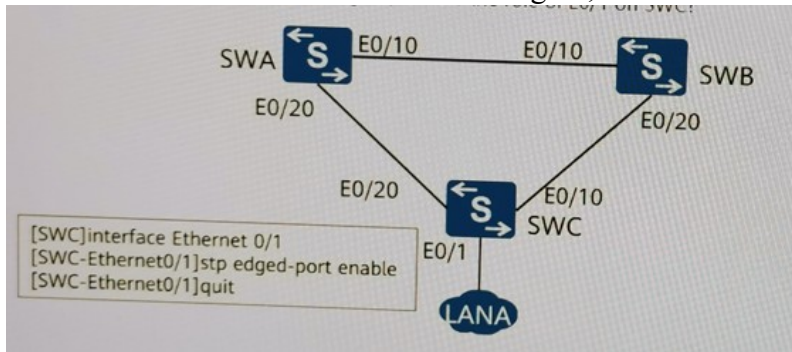
A. FTP

B. Telnet

C. H.323

D. SMTP

83. On the RSTP network shown in the figure, what is the role of E0/1 on SWC?



A. Designated port

B. Root port

C. Alternate port

D. Edge port

84. Which of the following statements regarding multicast MAC addresses are false?

A. The high 24 bits of the multicast MAC address are 0x01005f, the 25th bit is fixed to 1, and the lower 23 bits of the MAC address map to the lower 23 bits of the multicast IP address.

B. One multicast MAC address maps to 32 multicast IP addresses.

C. A multicast MAC address identifies receivers of a multicast group on the data link layer.

D. One multicast MAC address maps to only one multicast IP address.

85. Which three transmission modes are supported for IPv4 packets?

A. Unicast

B. Multicast

C. Anycast

D. Broadcast

86. Which of the following BGP attributes are well-known mandatory attributes?

- A. Local\_Pref
- B. Next\_hop
- C. AS\_Path
- D. MED

87. Which of the following statements regarding BGP peer are false?

- A. BGP routers support automatic neighbor discovery.
- B. A UDP connection must be established before BGP relationships are established.
- C. BGP peers exchange link state information.
- D. BGP peers must be configured with MD5 authentication.

88. Which of the following route selection tools can be used by other routing protocols in addition to BGP?

- A. ACL
- B. IP-prefix
- C. as-path-filter
- D. community-filter

89. Which of the following statements regarding DR/BDR are false?

- A. All DR others establish neighbor relationships with DR and BDR only.
- B. In a broadcast network. DR and BDR must be elected. A broadcast network without a DR or BDR cannot operate normally.
- C. DR others listen on the multicast address 224.0.0.5.
- D. DR others listen on the network address 224.0.0.6.

90. Which cost types are supported in IS IS?

- A. Narrow
- B. ToS
- C. wide
- D. default

91. Which of the following statements about WLAN roaming are false?

- A. APs with which a STA is associated before and after roaming must work on the same channel.
- B. APs with which a STA is associated before and after roaming can work on different channels.
- C. During roaming, the STA sends a Reassociation Request frame containing home AP information to the foreign AP.
- D. During roaming, the STA sends an Association Request frame containing home AP information to the foreign AP.

92. The session-based stateful detection firewall processes the first packet and subsequent packets in different manners. Which of the following statements are true?

- A. When a packet reaches the firewall, the firewall searches for a session table. If the packet does not match any entry, the firewall uses the process of the first packet.
- B. When a packet reaches the firewall, the firewall searches for a session table. If the packet matches an entry, the firewall uses the process of subsequent packets.
- C. When status detection is enabled, the firewall establishes sessions for only SYN packets during TCP packet processing.
- D. When status detection is enabled, the firewall checks subsequent packets against security policies.

93. How does an IGMPv2 router maintain group membership on the local network segment?

- A. A router maintains a timer for each group membership and periodically resets the timer if it receives Report messages from receiver hosts. If the timer of a group membership times out, the router deletes the group membership.
- B. A router periodically sends Query messages, and receiver hosts send Report messages after receiving the Query messages
- C. A router periodically sends Group-Specific Query messages periodically
- D. A router will not delete any group memberships unless it receives Leave messages

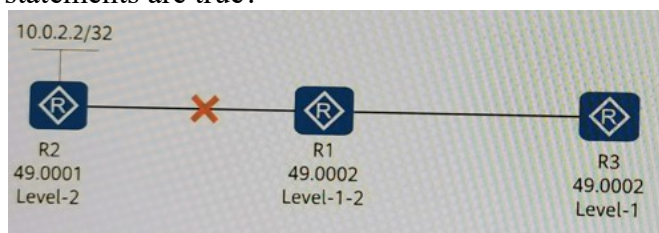
94. Which of the following statements regarding the OSPF protocol are true?

- A. An AS-External-LSA describes a route from a router to an ASBR.
- B. An AS-External-LSA describes an AS external route and is flooded outside an AS.
- C. An AS-External-LSA does not belong to any area.
- D. The cost of a Type 2 external route is only the AS external cost value, ignore AS internal cost value.

95. After which of the following parameters are modified does an IS-IS neighbor relationship need to be re-established?

- A. The interval at which an IS-IS interface sends IIH packets is changed.
- B. The cost of an IS-IS interface is changed.
- C. The IP address of an IS-IS interface is changed.
- D. The level of an IS-IS interface is changed.

96. Three routers run IS-IS and have established adjacencies. The area IDs and router levels are marked in the following figure. If the link between R1 and R2 goes down which of the following statements are true?



- A. The default route in the routing table of R3 disappears.
- B. R1 runs the SPF algorithm to delete R2 from the SPT.
- C. R1 sets the Age field in the LSP generated by R2 to 0.
- D. The default route remains in the routing table of R3.

97. In which of the following VPN technologies will make two IP packet headers appear in one VPN packet?

- A. GRE
- B. SSL VPN
- C. IPsec VPN
- D. L2TP

98. Which of the following statements regarding BGP configuration are false?

```
[HUAWEI-bgp]timer keepalive 30 hold 90
[HUAWEI-bgp]peer 1.1.2 timer keepalive 10 hold 30
```

- A. The global configuration is preferred. Therefore, the timer configuration of the peer 1.1.1.2 is keepalive 30 hold 90.
- B. The peer configuration is preferred. Therefore, the timer configuration of the peer 1.1.1.2 is keepalive 10 hold 30.
- C. The smallest timer values are used. Therefore, the timer configuration of the peer 1.1.1.2 is keepalive 10 hold 30.
- D. By default, the timer configuration is keepalive 60 hold 180. Therefore, the peer 1.1.1.2 has the faster detection than the default configuration.

99. BGP is an interdomain routing protocol. Which of the following statements regarding BGP are true?

- A. BGP uses a reliable transport protocol.
- B. BGP supports automatic neighbor discovery.
- C. BGP supports plaintext authentication.
- D. BGP supports rich routing policies.

100. Which of the following methods for delivering default routes does the OSPF protocol support?

- A. A default route can be delivered on an ABR.
- B. A default route can be delivered on an ASBR.
- C. A default route can only be forcibly delivered.
- D. A default route can be delivered in non-forcible mode.

101. Which of the following are the functions of a switching fabric unit (SFU)?

- A. Provides control plane functions.
- B. Provides data plane functions.
- C. Provides optical and electrical ports of different rates.
- D. Switches traffic between service boards.

102. Which of the following statements about the 802.1 X authentication trigger mechanism are true?

- A. 802.1 X authentication can only be initiated by a supplicant.
- B. 802.1 X authentication cannot be triggered by an authenticator such as an 802.1 X switch.
- C. An 802.1 X supplicant can trigger 802.1 X authentication by sending multicast or broadcast packets.
- D. An authenticator can trigger 802.1 X authentication by sending multicast or unicast packets.

103. Which of the following functions are supported by iMaster NCE?

- A. Management
- B. Control
- C. Analysis
- D. Forwarding

104. Which zones are provided by the Huawei firewall by default?

- A. Local zone
- B. Trusted zone
- C. Untrusted zone
- D. Security zone

105. Which of the following are advantages of using the stack and CSS to build a campus network?

- A. Improves the utilization of network devices and links.
- B. Simplifies network management and network deployment and planning.
- C. Effectively reduces network power consumption.
- D. Greatly reduces service interruptions.

106. Which of the following statements regarding BGP route advertisement are false?

- A. All the BGP routes learned from all BGP peer will be advertised to other BGP peers.
- B. Only the routes learned from IGP can be advertised to other BGP peers.
- C. By default the routes learned from an IBGP peer will not be forwarded to other IBGP peers.
- D. Only the optimal routes preferred by BGP can be advertised to other BGP peers.

107. Which of the following route prefixes match the IP prefix below?

```
[HUAWEI]ip ip-prefix test index 10 permit 20.0.0.0 16 greater-equal 24 less-equal 28
```

- A. 20.0.1.0/23
- B. 20.0.1.0/24
- C. 20.0.1.0/25
- D. 20.0.1.0/28

108. Which of the following statements regarding advantages of OSPF area partitioning are true?

- A. The LSDB size can be reduced so that memory consumption of routers can be reduced.
- B. The number of LSAs can be reduced so that CPU consumption of routers can be reduced.
- C. Flooding of a large number of LSAs is limited within a single area.
- D. Routers in an area can learn details about the topology outside this area.