1. (True or false) Python is a language that can invoke code written in other languages.

**Answer: True**

1. (True or false) By default, local authentication is used in the default AAA domain.

**Answer: True**

1. (True or false) Both Java and Python are interpreted languages.

**Answer: True**

1. (True or false) You can run the display ospf lsdb command to view the LSDB of a router. The LSDBs of all OSPF-enabled routers on a network are the same.

**Answer: True**

1. (True or false) Users can configure IP addresses for terminals connected to a WLAN.

**Answer: False**

1. (Single-answer question) In STP mode, if the root port of a non-root bridge is shut down, which of the following statements is true?

A. The switch will immediately delete the entire MAC address table.

B. The switch will immediately send updated configuration BPDUs from a specified port.

C. The switch will immediately send TCN packets.

D. The switch will immediately send TC packets.

**Answer: C**

1. (Single-answer question) Which of the following statements about ARP packet sending is true?

A. The destination MAC address of ARP Request packets sent from a host is a unicast MAC address.

B. The destination IP address of ARP Request packets sent from a host is a broadcast IP address.

C. The destination MAC address of ARP Reply packets sent from a host is a unicast MAC address.

D. The destination MAC address of ARP Reply packets sent from a host is a broadcast MAC address.

**Answer: C**

1. (Single-answer question) Which of the following statements is true when switches are used on the Ethernet?

A. Broadcast domains are increased but reduce broadcasts.

B. Broadcast domains and broadcasts are both increased.

C. Collision domains are increased but collisions are reduced.

D. Collision domains and collisions are both increased.

**Answer: C**

1. (Single-answer question) Which of the following statements is true about the order of starting an AP?

A. Obtain an IP address through DHCP. -> Discover an AC through CAPWAP. -> Download the configuration. -> Upgrade the software.

B. Obtain an IP address through DHCP. -> Discover an AC through CAPWAP. -> Upgrade the software. -> Download the configuration.

C. Discover an AC through CAPWAP. -> Obtain an IP address through DHCP. -> Download the configuration. -> Upgrade the software.

D. Discover an AC through CAPWAP. -> Obtain an IP address through DHCP. -> Upgrade the software. -> Download the configuration.

**Answer: B**

1. (Single-answer question) An enterprise wants to assign VLANs on its network, and requires that users belong to a fixed VLAN no matter which access point is used to access the network. In this case, which of the following VLAN assignment modes is recommended?

A. Port-based VLAN assignment

B. MAC address–based VLAN assignment

C. Protocol-based VLAN assignment

D. Physical location–based VLAN assignment

**Answer: B**

1. (Single-answer question) Which of the following statements about the working principles of a Layer 3 switch is false?

A. If the destination MAC address of a received data frame is the MAC address of the switch, the switch performs Layer 3 forwarding; otherwise, the switch performs Layer 2 forwarding.

B. A VLANIF interface of a Layer 3 switch is a logical interface inter-VLAN communication. Only one IP address can be configured for each VLANIF interface.

C. After transmitting the first data flow based on the routing table, a Layer 3 switch generates a table recording mappings between MAC addresses and IP addresses. When the same data flow arrives, the switch directly forwards the data flow at Layer 2 based on the mapping table.

D. The working principle of a Layer 3 switch can be described as a process of "once routing and multiple times of switching".

**Answer: B**

1. (Single-answer question) Which of the following statements about VLAN tag processing on switches' interfaces is true?

A. An access port only receives untagged data frames.

B. A trunk port sends only untagged data frames.

C. An access port sends only untagged data frames.

D. A trunk port sends only tagged data frames.

**Answer: C**

1. (Single-answer question) Which of the following commands is run in the interface view to encapsulate the serial interface with PPP on a router?

A. link-protocol ppp

B. encapsulation ppp

C. enable ppp

D. address ppp

**Answer: A**

1. (Single-answer question) Which of the following messages can provide error information and processing of IP data packets for source nodes?

A. IGMP

B. TCP

C. UDP

D. ICMP

**Answer: D**

1. (Single-answer question) After a DHCP server is deployed on a network, an administrator finds that some hosts obtain IP addresses that are not specified on the DHCP server. Which of the following is not a possible cause?

A. Another DHCP server with higher working efficiency exists on the network.

B. These hosts cannot communicate with the DHCP server, so clients on these hosts automatically obtain IP addresses on the 169.254.0.0 network segment.

C. These hosts cannot communicate with the DHCP server, so clients on these hosts automatically obtain IP addresses on the 127.254.0.0 network segment.

D. The address pool on the DHCP server has no available IP address.

**Answer: C**

1. (Single-answer question) To which of the following features are ACLs inapplicable?

A. Address translation

B. Packet filtering

C. QoS

D. GVRP

**Answer: D**

1. (Single-answer question) Which of the following statements about DD packets and LSAs in OSPF is false?

A. A DD packet contains detailed LSA information.

B. A DD packet contains only the header of an LSA.

C. An LSA header uniquely identifies an LSA.

D. An LSA header is only a part of an LSA.

**Answer: A**

1. (Single-answer question) Which of the following commands can be used to check whether an OSPF neighbor relationship has been set up?

A. display ospf neighbor

B. display ospf brief

C. display ospf peer

D. display ospf routing table

**Answer: C**

1. (Single-answer question) In which of the following link aggregation modes can Huawei switches implement link backup?

A. Manual mode

B. Static LACP mode

C. Dynamic LACP mode

D. Automatic mode

**Answer: B**

1. (Single-answer question) Which of the following statements about VLAN is false?

A. A VLAN partitions a broadcast domain into subdomains.

B. VLANs ensure network security.

C. A VLAN partitions a collision domain into subdomains.

D. VLAN is a Layer 2 technology.

**Answer: C**

1. (Single-answer question) If two routers have set up an OSPF adjacency relationship, which packet must be sent to each other within 1 minute? If two routers have set up an OSPF adjacency relationship, which of the following packets is sent between the routers within 1 minute?

A. Hello

B. DD

C. LSR

D. LSU

E. LSACK

**Answer: A**

1. (Single-answer question) If an interface of a router uses PPP as the data link layer protocol, which of the following is the default network type determined by OSPF?

A. Broadcast

B. Point-to-point

C. Point-to-multipoint

D. NBMA

**Answer: B**

1. (Single-answer question) Two routers are running on a PPP link. An administrator configures the same OSPF area and router ID on these routers. Which of the following statements is true?

A. Two routers will set up a neighbor relationship normally.

B. VRP will display a message indicating that router IDs of the two routers conflict.

C. Two routers will set up an adjacency relationship normally.

D. Two routers will not send Hello messages to each other.

**Answer: B**

1. (Single-answer question) Which of the following statements about the designated port in STP is true?

A. Each bridge has only one designated port.

B. The designated port can forward configuration BPDUs to the connected network segment.

C. Ports on a root switch cannot be designated ports.

D. Each bridge has at least one designated port.

**Answer: B**

1. (Single-answer question) In the port transition mechanism of STP, to which of the following states will the root ports and designated ports be transitioned finally?

A. Blocking

B. Listening

C. Learning

D. Forwarding

**Answer: D**

1. (Single-answer question) Client A and server B set up a TCP connection. In the three-way handshake, server B sends a SYN-ACK packet (seq = b, ack = a+1) to client A. Which of the following statements is true?

A. The SYN-ACK packet is the acknowledgement for the SYN packet with the sequence number being a+1.

B. The SYN-ACK packet is the acknowledgement for the SYN packet with the sequence number being b.

C. Server B wants to receive an ACK packet with the sequence number being a+1.

D. Server B wants to receive an ACK packet with the sequence number being b.

**Answer: C**

1. (Single-answer question) How does a new switch that has not yet been manually configured process data frames received from terminals?

A. Forwards the frames based on their destination MAC addresses without any processing.

B. Discards the frames without any processing.

C. Tags VLAN 1 to the frames and forwards them based on their destination MAC addresses.

D. Tags VLAN 0 to the frames and forwards them based on their destination MAC addresses.

**Answer: C**

1. (Single-answer question) Which of the following statements about root bridge election in STP is false?

A. Only bridge IDs are compared.

B. A bridge ID consists of the priority and MAC address of a switch.

C. If switches have the same priority, they compare their MAC addresses to select the root bridge.

D. A higher priority value indicates a higher priority of a switch.

**Answer: D**

1. (Single-answer question) An enterprise network has 50 private IP addresses. An administrator wants to use NAT technology to access the public network and only one public IP address is available for the enterprise. Which NAT mode can be used?

A. Static NAT

B. Dynamic NAT

C. NAPT

D. Easy IP

**Answer: D**

1. (Single-answer question) Which of the following states indicates that two OSPF-enabled routers have established a neighbor relationship?

A. Two-way

B. Exstart

C. Exchange

D. Full

**Answer: A**

1. (Single-answer question) If the subnet mask of a network address is /26, how many host addresses are available on this network?

A. 14

B. 30

C. 62

D. 126

**Answer: C**

1. (Single-answer question) Assume that a router has two OSPF routes destined for the network segment 10.120.10.0/24. The costs of these routes are 100 and 15, and their preferences are 10 and 60, respectively. Which of the following routes will be used for forwarding the data packets to the network segment 10.120.10.0/24?

A. Route with the preference of 60

B. Route with the preference of 10

C. Route with the cost of 100

D. Route with the cost of 15

**Answer: B**

1. (Single-answer question) If two routers have set up an OSPF adjacency relationship and all the links run properly (no new or deleted links), which of the following packets is sent between the routers within 1 minute?

A. Hello

B. DD

C. LSR

D. LSU

E. LSACK

**Answer: A**

1. (Single-answer question) Which of the following packets is used to terminate a PPPoE session?

A. PADI

B. PADO

C. PADR

D. PADT

**Answer: D**

1. (Multiple-answer question) Which of the following routes are the sources of a routing table?

A. Routes discovered by link layer protocols, which are also called interface routes or direct routes

B. Direct routes discovered by network layer protocols

C. Static routes that are manually configured by the network administrator

D. Routes discovered by dynamic routing protocols

**Answer: ACD**

1. (Multiple-answer question) Which of the following statements about the preference of static routes on a Huawei device are true?

A. The preference value of a static route is in the range from 0 to 255.

B. The default preference value of a static route is 60.

C. The preference value of a static route can be modified at random.

D. Preference values of static routes can only be centrally modified, instead of one by one.

**Answer: BC**

1. (Multiple-answer question) How can communication between different VLANs be achieved?

A. Use a router, and configure VLANs on different interfaces of the router.

B. Use a router as a router-on-a-stick.

C. Use a Layer 3 switch.

D. Different VLANs cannot communicate with each other.

**Answer: ABC**

1. (Multiple-answer question) Which of the following fields in packets are not changed when a router forwards packets?

A. Source MAC address

B. Destination MAC address

C. Source IP address

D. Destination IP address

**Answer: CD**

1. (Multiple-answer question) Which of the following methods can be used to generate interface IDs from IPv6 addresses?

A. They are automatically generated using EUI-64.

B. They are randomly generated by a device.

C. They are manually configured.

D. They are allocated based on DHCP.

**Answer: ABC**

1. (Multiple-answer question) Which of the following are correct IPv6 addresses?

A. 2001:410:0:1:45FF

B. 2001:410:0:1:0:0:0:0:45FF

C. 2001:410:0:1:0:0:0:45FF

D. 2001:410:0:1::45FF

**Answer: CD**

1. (Multiple-answer question) Which of the following physical parameters on the two ends of an Eth-Trunk must be the same?

A. Number of links to be aggregated

B. Rate of links to be aggregated

C. Duplex mode of links to be aggregated

D. Switch models on the two ends of the Eth-Trunk

**Answer: ABC**

1. (Multiple-answer question) A switch port is configured as a trunk port with the PVID of 1 and allows data frames from VLAN 10 to pass through. When this port forwards data frames from VLAN 10 out of the switch, which of the following statements about VLAN tag information carried in the data frames are false?

A. They carry VLAN tags with the VLAN ID of 10.

B. They carry VLAN tags with the VLAN ID of 1.

C. They carry VLAN tags with the VLAN ID of 0.

D. They carry no VLAN tags.

**Answer: BCD**

1. (Multiple-answer question) When a switch port configured as an access port forwards data frames out of the switch, which of the following statements about VLAN tag information carried in the data frames are false?

A. They carry VLAN tags with the VLAN ID of 1.

B. They carry VLAN tags with the PVID being the VLAN ID.

C. They carry VLAN tags with the port's default VLAN ID being the VLAN ID.

D. They carry no VLAN tags.

**Answer: ABC**

1. (Multiple-answer question) Which of the following statements about trunk ports and links are true?

A. The PVID of a trunk port cannot be changed.

B. When a trunk port receives an untagged data frame, the port tags the PVID to the data frame.

C. A trunk link can carry data frames with different VLAN IDs.

D. All data frames transmitted on a trunk link carry VLAN IDs.

**Answer: BC**

1. (Multiple-answer question) Which of the following statements about STP are true?

A. A bridge ID consists of the priority (rightmost) and MAC address (leftmost) of a bridge.

B. The default priority of Huawei Ethernet switches is 32768.

C. A higher priority value indicates a lower priority of a switch.

D. The bridge with a smaller bridge ID is elected as the root bridge.

**Answer: BCD**

1. (Multiple-answer question) If the number of an ACL is 2999, which of the following statements are true?

A. It is a basic ACL.

B. It is an advanced ACL.

C. Policies can be configured based on the time range.

D. Policies can be configured based on the packet type.

**Answer: AC**

1. (Multiple-answer question) Which of the following statements about PPP authentication are false?

A. CHAP authentication occupies fewer resources than PAP authentication.

B. PAP authentication is not as secure as CHAP authentication.

C. PAP authentication and CHAP authentication are both based on MD5 technology.

D. PAP authentication is unidirectional, while CHAP authentication is bidirectional.

**Answer: ACD**

1. (Multiple-answer question) Which of the following SNMP versions do not support encryption?

A. SNMPv1

B. SNMPv2

C. SNMPv2c

D. SNMPv3

**Answer: AC**

1. (Multiple-answer question) If the PVID of a trunk link is 5, and the port trunk allow-pass vlan 2 3 command is run on the interface, traffic from which VLANs can pass through the trunk link?

A. VLAN 1

B. VLAN 2

C. VLAN 3

D. VLAN 5

**Answer: ABC**

1. (Multiple-answer question) Which of the following statements about the gateway are false?

A. When an IP address and subnet mask are configured for a host, but no gateway is configured, the host cannot communicate with any device.

B. The gateway address is the next hop address.

C. Generally, a gateway does not need to be configured for communication in the same network segment.

D. The gateway address of a host must be configured manually.

**Answer: AD**