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H31-211

HCNA - Carrier IP



Version 1.0

Exam A

QUESTION 1

Which of the following communication types are defined based on information interaction between the transmitter and the receiver? (Select multiple)

- A. Simplex
- B. Half-duplex
- C. Duplex
- D. Auto-negotiation

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

The Advanced Research Projects Agency Network (ARPANET) network is created by United States Department of Defense and is the predecessor of the contemporary global. Which of the following is the basis of an ARPANET network?

- A. MPLS forwarding
- B. Packet switching
- C. Circuit switching
- D. Low-speed serial connection

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 3

In a TCP/IP protocol stack, the headers of packets at each layer are removed in the decapsulation process in a specified manner. Which of the following is the right manner?

- A. From lower to upper
- B. From Transport Layer to the lower layers
- C. From upper to lower
- D. From Network Layer to the upper layers

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4 What is the PDU (Protocol Data Unit) that resides at physical layer called?

- A. Packet
- B. Frame
- C. Segment
- D. Binary bit flow

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5 Which network component is used to carry a hardware address, for example, MAC address used for communication between devices on the same link?

- A. PIC
- B. Network interface card
- C. POWER
- D. FAN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6 Where do RPC, NFS and SQL protocols reside at the OSI reference model?

- A. Transport layer
- B. Presentation layer
- C. Network layer
- D. Session layer

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7 Which of the following statements about the IPv6 fragmentation operation is correct?

- A. ICMPv6 is not applicable for fragmentation
- B. Fragmentation can occur only on the start host
- C. Fragmentation can occur only on the start router
- D. Fragmentation operations are similar to Ipv4 operations

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8 Which of the following statements about broadcast in IPv6 is correct?

- A. Broadcast in LAN can affect all nodes.
- B. Broadcast is not used in IPv6.
- C. The definition of broadcast in the IPv6 network is pending.
- D. Broadcast, as a basic mechanism, is used in various IPv6 operations.



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9 IPv6 cancels the option field in the IPv4 packet header and adds multiple extended packet headers, which improves the processing efficiency and enhances the flexibility of IPv6 and provides a good scalability for the IP protocol.

- A. True
- B. False

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Tracert is an application based on application layer, which transport layer protocol is used by Tracert?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Which of the following fibers allows for multiangular incidence of "multiple" beams of light for transmission?

- A. 4-core fiber
- B. "Single-mode" fiber
- C. Active fiber
- D. Multimode fiber

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12 Which of the following is valid host IP address?

- A. 122.245.264.13/26
- B. 192.168.2.15/28
- C. 10.0.2.128/26
- D. 224.0.4.5
- E. 12.3.4.6/24



Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13 How many hosts are available for a class

B IP address?

- A. 2M
- B. 16K
- C. 64K
- D. 254

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

The first three octets of a Class C IP address represent a network. Which of the following binary numbers does the first byte of the three octets start with?

- A. 10
- B. 101C. 110
- D. 100

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15 The subnet mask of a class A address is 255.255.240.0. How many bits are used for sub-netting?

- A. 9
- B. 12
- C. 4
- D. 5

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16 Which of the following protocols can be used for file transfer?

(Select multiple)

- A. Icmp
- B. Telnet
- C. TFTP
- D. FTP



Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17 For a class C IP address, how many bits at most can be used for sub-netting?

- A. 8
- B. 14
- C. 6
- D. 12

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18 Which of the following destination ports is used when the TFTP client connects to the TFTP server?

- A. 20
- B. 53
- C. 21
- D. 69

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

How many bits does a MAC address have?

- A. 24
- B. 6
- C. 12
- D. 48

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which layer is used to implement internal communication of a same IP network segment in an IP network?

- A. Layer 3
- B. Layer 2
- C. Application Layer
- D. Physical Layer



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21 Which of the following statements regarding collision is incorrect?

- A. Reduce the number of hosts in a network can decrease probability of collision.
- B. Each ports of switch is an independent collision domain.
- C. The collision that happens in the network connected with one port of a switch will affect another network connected with another port of the switch.
- D. The number of the collision domains will be increased if the hub in the network is replaced with the bridge.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22 A MAC address consists of 48 bits and is generally expressed in 12-bit dotted decimal notation. What kind of address does a MAC address consisting of all 1s stand for?

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



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23 Which of the following are the advantages of RSTP compared with STP?
(Select multiple)

- A. If the designated port is connected with P2P link, it can make a handshake with the connected bridge and enter the forwarding state immediately after it receives a response.
- B. Once a port of the switch which is configured as edge port has been enabled, it will become designated port immediately and transit to forwarding state.
- C. If the designated port is connected with P2MP link, it can make a handshake with the connected bridge and enter the forwarding state immediately after it receives a response.
- D. A new root port is elected on the non-root switch and the previous old root port is no longer in forwarding state. Moreover the designated port of the segment which connects with the new root port already starts to forward the data. In this case, the new root port can enter forwarding state immediately.

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24 During STP calculation, when a port is in a certain state, it neither forwards any data frame nor learns MAC address labels. Instead, it only receives and processes STP protocol packets. Which state does the abovementioned state refer to?

- A. Listening
- B. Forwarding
- C. Learning

D. Blocking

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

Which attribute is selection of a root bridge based on when the spanning tree is calculated by the STP?

- A. Path Cost
- B. Port ID
- C. Bridge ID
- D. Port Cost

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26 Where is A VLAN in the Ethernet used to separate?

- A. Layer 2 multicast domain
- B. Layer 2 broadcast domain
- C. Layer 2 MAC address
- D. Layer 2 unicast domain



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27 What action does an access port take in the process of sending packets?

- A. Exchanges the VLAN information between packets and then sends out the packet.
- B. Strips the VLAN information off the packet and then directly sends out the packet.
- C. Attaches its PVID information to the packet.
- D. Sends tag packets.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28 Which of the following statements about VLAN communication are true?
(Select multiple)

- A. Layer 3 VLAN interfaces can be configured on a Layer 2 switch to implement VLAN communication.
- B. One-arm routing can be configured for a Layer 2 switch only by using a router to implement VLAN communication.

- C. One-arm routing can be configured for a Layer 3 switch only by using a router to implement VLAN communication.
- D. Layer 3 VLAN interfaces can be configured on a Layer 3 switch to implement VLAN communication.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29 Which of the following are the formats of Ethernet frame in the switching network?
(Select multiple)

- A. Tagged frame
- B. FDDI frame
- C. Token frame
- D. Untagged frame

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30 Which of the following descriptions about VRRP priority are correct?
(Select multiple)

- A. The owner of Virtual IP address always uses 0 as running priority despite of its configured priority.
- B. The owner of Virtual IP address always uses 255 as running priority despite of its configured priority.
- C. When the master of VRRP stop running VRRP, the router will send a VRRP notification packet whose priority field is 0.
- D. A router with VRRP priority 0 will not take part in master election and can permanently act as slave.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31 Which of the following descriptions about function of VRRP is true?

- A. VRRP improves the reliability of the default gateway in the network.
- B. VRRP is mainly used for load balancing.
- C. VRRP makes the routing protocols converge faster.
- D. VRRP provides the same default gateway for different network segments, thus simplifies gateway configuration of PCs in the network.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32 All the protocols in the standard HDLC protocol suite run on synchronous serial line.

- A. True

B. False

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33 PPP protocol consists of three types of protocols, what are they?
(Select multiple)

- A. LCP (Link Control Protocol)
- B. PPP extension protocol
- C. PPPOE
- D. NCP (Network Control Protocol)

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34 Which of the following statements are true?
(Select multiple)

- A. PAP is used for user authentication.
- B. LCP negotiates on authentication information.
- C. IPCP can be used to negotiate on IP addresses and compress information.
- D. CHAP performs authentication by exchanging packets twice.



Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35 What does the distance vector routing protocol focus on according to the discovered routes and calculated routes?

- A. Whether the egress port on the route belongs to a port aggregation group
- B. Link bandwidth resource information
- C. The address of the next hop specified manually
- D. The number of hops on between the router and the destination

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36 Which of the following commands can be used to display the routing table on a Quidway router?

- A. Display ip routing-table
- B. Display current-configuration

- C. Display ip path
- D. Display interface

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37 How can the default route be generated?

(Select multiple)

- A. Manually configured
- B. Generated by link layer protocol
- C. Generated by dynamic routing protocols
- D. Automatically generated by the router

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38 Which of the following statements are correct?

(Select multiple)

- A. Some of the dynamic routing protocols calculate the best path base on the cost value. However, Different routing protocol calculates the metric in different ways.
- B. The calculation of cost may be based on "single" link attribute or several link attributes such as delay, hop count, bandwidth and etc.
- C. When several dynamic routing protocols have the best routes to the same destination, all these routes will be added to the routing table.
- D. The calculation method of the preference and cost in the routing table are the same.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39 Which of the following values is the default preference value for static route on the

VRP platform?

- A. 60
- B. 20
- C. 100
- D. 0

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40 Which of the following are the disadvantages of using static routing protocol in the network?

(Select multiple)

- A. Re-configurations are required after the topology changes
- B. On the VRP platform, load balancing can not be implemented using static route
- C. The configurations are complicated in a large network.
- D. External routers can not learn the static route configuration which will result in network unreachability.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41 Which of the following statements regarding routing convergence is correct?

- A. Convergence is a process of combining the routing tables of two routers.
- B. Convergence is a process of synchronizing all routing tables for all the routers in the network. It is the process for a router to reach the stable and consistence state after the network changes.
- C. Convergence is a process of establishing neighbor relationships between any two routers by sending hello packets.
- D. Convergence is a process that occurs due to network topology changes.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42 In IS-IS, which of the following commands is used to change the interface level?

- A. [Quidway-GigabitEthernet1/0/0] isis circuit-level level-1
- B. [Quidway-GigabitEthernet1/0/0] isis is-level level-1
- C. [Quidway-isis-1] isis level level-1
- D. [Quidway-isis-1] is-level level-1

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43 How many area addresses can be supported by an ISIS router at the same time?

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

Correct

Answer:

D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 44 How many layers the IS-IS can divided into?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45 When two routers synchronize their LSDBs, they use which packets to describe their own LSDBs?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 46 Which of the following OSPF versions is specific to the IPv6 technology?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47 OSPF runs over the IP protocol and the IP protocol No. used by which OSPF?

- A. 89
- B. 512
- C. 80
- D. 2328

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48 Which of the following statements regarding OSPF area are incorrect?
(Select multiple)

- A. Area ID must be assigned by IANA and we can not simply assign it.
- B. OSPF supports area division.
- C. Every OSPF area is identified by a 32-bit Area ID number.
- D. Without manual configuration, an OSPF area is a backbone area with area ID 0 by default.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49 Which of the following statements about an OSPF neighboring router are true?
(Select multiple)

- A. Neighbor discovery is equivalent to adjacency establishment.
- B. After an OSPF router receives a Hello packet from the peer OSPF router, it checks the parameters in the packet. If the parameters in the packet from the peer OSPF router are consistent with the parameters of this OSPF router, the two OSPF routers become neighbors of each other.
- C. After a router receives a Hello packet from the peer router, it becomes the neighbor of the peer router.
- D. An OSPF interface broadcasts Hello packets to discover a neighbor.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:



QUESTION 50 In an OSPF network, an ASBR router advertises the information about the routes outside an AS to the AS. Which of the following routers can function as an ASBR?

- A. IR
- B. A router that does not belong to the backbone OSPF area
- C. ABR
- D. A router that belongs to the backbone OSPF area

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

With what kind of routers does a DRother router exchange link state information and route information? (Select multiple)

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

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52 Which of the following is the default control policy on Eudemon firewall?

- A. No default control policy
- B. Loose control policy
- C. Strict control policy
- D. Compromise control policy

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

Which of the following firewalls acts as an intermediate node in which it acts as a server for the client and acts as a client for the server? Which of the following firewalls best describes the firewall mentioned above?

- A. Application layer gateway firewall
- B. Packet filtering firewall
- C. Stateful firewall
- D. Proxy firewall

Correct Answer: D

Section: (none)

Explanation



Explanation/Reference:

QUESTION 54

This type of firewall directly obtains the information such as source IP address, destination IP address, source TCP/UDP port, destination TCP/UDP port and protocol number in the packet header and filters the packets based on the defined policy. Which of the following is the firewall described above?

- A. Proxy firewall
- B. Packet filtering firewall
- C. Stateful firewall
- D. Link layer firewall

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

This device is used between the zones with different security level, control the information exchanged between two networks, enforce the implementation of unified security policy, and prevent the intruder from copying and accessing the important information illegally. In short words, it protects the security of the system. Which of the following devices provides the function mentioned above?

- A. Gateway
- B. Router
- C. Firewall
- D. IDS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56 Which of the following statements regarding proxy firewall are correct?

(Select multiple)

- A. Proxy firewall does not support abundant services.
- B. The performance of proxy firewall is higher.
- C. Proxy firewall has better security compared with packet filtering firewall.
- D. For the proxy firewall, a module must be developed for each application. Therefore, the development cost is high.

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57 Which of the following commands can switch a view from the system view to the user view?

- A. Quit
- B. Router
- C. User-view
- D. System-view

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

Which component of the VRP platform provides user authentication charging and user policy management?

- A. Versatile control plane
- B. System management plane
- C. Service control plane

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59 Which of the following methods are supported by VRP platform to configure the router?

- A. Through FTP
- B. Through the AUX port
- C. Through the Console port
- D. Through Telnet



Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60 Which of the following storage devices are supported by Huawei Quidway router?

- A. CF Card
- B. Hard Disk
- C. SDRAM
- D. NVRAM
- E. Flash

Correct Answer: ACDE

Section: (none)

Explanation

Explanation/Reference: