

H12-711

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## Exam A

### QUESTION 1

The network administrator wants to improve the performance of network transmission, what steps can the administrator take? (Two Answers)



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- A. Change the work mode to full duplex of each end station.
- B. Link the end stations together using a switch.
- C. Change the work mode to half duplex of each end station.
- D. Link the end stations together using a hub.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

On Huawei switch, which of the following commands can be used to set port duplex mode as "auto negotiation"? (Select 2 Answers)

- A. duplex negotiation auto
- B. duplex auto-negotiation
- C. duplex auto D. undo duplex

**Correct Answer:** CD

**Section:** (none)

**Explanation**



**Explanation/Reference:**

### **QUESTION 3**

The network administrator wishes to transmit data between two end stations. The network interface cards of both devices operates at 100Mbps however one supports half duplex while the other uses full duplex mode. What will occur as a result?

- A. The end stations cannot communicate.
- B. The end stations can communicate, but data may be lost during transmission of large amounts of traffic.
- C. The end stations will operate normally
- D. The end stations can communicate, but speed is different during transmission of large amounts of traffic.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 4**

An Ethernet port can work one of three duplex modes, whereas an Optical Ethernet port only supports one single mode. Which of the following represents this mode?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 5**

While inspecting packets in the network, a network administrator discovers a frame with the destination MAC address of 01-00-5E-A0-B1-C3. What can the administrator determine from this?

- A. The MAC address is a unicast address.
- B. The MAC address is a broadcast address
- C. The MAC address is a multicast address.
- D. The MAC address is incorrect

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

According to OSI reference model, which layer is responsible for end to end error checking and flow control?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Which of the following mechanisms are used for flow control? (Select 3 Answers)

- A. Acknowledgement
- B. Buffering
- C. Source quench messages
- D. Windowing

**Correct Answer:** BCD

**Section:** (none)

**Explanation**



**Explanation/Reference:****QUESTION 8**

Source	Destination	Protocol	Info
10.0.12.1	10.0.12.2	TCP	50190 > telnet [SYN] Seq=0 Win=8192 Len=0 MSS=1460
10.0.12.2	10.0.12.1	TCP	telnet> 50190 [SYN, ACK] Seq=0 Ack=1 Win=8192 Len=0 MSS=1460
10.0.12.1	10.0.12.2	TCP	50190 > telnet [ACK] Seq=1 Ack=1 Win=8192 Len=0

Refer to the capture output. The administrator has captured three packets in the network. Which statement regarding the captured packets is incorrect?

- A. These packets represent a TCP three-way handshake process.
- B. 10.0.12.1 is the telnet server, while 10.0.12.2 is the telnet client.
- C. The three packets contain no application data.
- D. 10.0.12.1 uses port 50190 to build the telnet connection.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

An Ethernet frame is captured by network protocol analyzer tool and the value of Type/Length field is 0x0800. Which of the following statements about the frame are correct? (Select 2 Answers)

- A. The frame structure of the frame is Ethernet\_II
- B. The frame structure of the frame is 802.3
- C. Its upper layer protocol is IP
- D. Its upper layer protocol is IPX

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

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



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- A. The TTL defines how many packets the source can send.
- B. The TTL defines the duration during which the source can send packets.
- C. The TTL value will decrement by 1 each time the packet is routed.
- D. The TTL value will increment by 1 each time the packet is routed.

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 11**

Which of the following statements are correct about TTL field in IP packet? (Select 2

Answers) <choice ident="A"> <choice ident="B">

<choice ident="C">

<choice ident="D">

- A. The maximum value of TTL is 65535
- B. Normally, it's impossible for a router to receive a packet whose TTL is zero.
- C. The main purpose of TTL is to prevent IP packets from circulating endlessly in a network which can consume a lot of bandwidth
- D. TTL value will be decremented as a packet is passed through the network devices such as hub, LAN switch and router.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

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

- A. Interface for sending an Echo Request packet
- B. Source IP address for sending an Echo Request packet
- C. Interface for receiving an Echo Reply packet
- D. Destination IP address for receiving an Echo Reply packet

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

To provide the information about the IP addresses that a user packet traverses along the path to the destination, which of the following does Tracert record in each expired ICMP TTL packet?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

Which of the following statements regarding the verification of IP connectivity are false? (Three Answers)

- A. The ping 127.0.0.1 command can be used to check whether the network cable is correctly inserted into the host's Ethernet port.
- B. The ping command with the host IP address as the destination can be used to verify that the TCP/IP protocol suite is functioning correctly.
- C. The ping command can be used to verify connectivity between the host and the local gateway.
- D. The command "ipconfig /release" can be used to check connectivity problems between the host and the local gateway.

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

A network administrator uses the ping command to check for points of failure in the network. Which protocols will be used during this process? (Two Answers)

- <choice ident="A">
- <choice ident="B">
- <choice ident="C">
- <choice ident="D">

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



**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

A network administrator recently used tracert to trace the path to the destination IP address of an external website, however the trace path displayed only a timeout result. Which of the following statements correctly explains the reason for this? (Two Answers)

- A. The source router had shutdown the ICMP function.
- B. This destination IP address does not exist.
- C. The gateway cannot find a route to the destination.



D. This is a normal phenomenon.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 17

Ping 10.0.0.2 : 56 data bytes, press CTRL\_C to break

Reply from 10.0.0.2 : bytes=800 Sequence=1 ttl=255 time=2 ms

Reply from 10.0.0.2 : bytes=800 Sequence=2 ttl=255 time=10 ms

--- 10.0.0.2 ping statistics ---

2 packet(s) transmitted

2 packet(s) received 0.00%

packet loss round-trip min/avg/max

= 2/6/10 ms

A network administrator uses the ping command to test connectivity to the destination 10.0.0.2 on a Huawei AR series router. Which statement regarding the output is correct?

A. The network administrator used the command ping -c 2 -s 800 10.0.0.2

B. The network administrator used the command ping -a 2 -v 800 10.0.0.2

C. The path between the source and destination is not OK.

D. The network administrator changed the default TTL value.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

Which of the following statements explains the behavior of the ICMP redirect function? (Two Answers)

A. When a router receives data on the interface via which the same data needs to be forwarded, and the source is on the same segment as the next hop, an ICMP redirect message will be sent by the router to the source.

- B. When a router receives data on an interface, and the router's IP address matches the destination IP of the data, an ICMP redirect message will be sent by the router to the source.
- C. When a router receives data on the interface via which the same data needs to be forwarded, and the source is on the same segment as the next hop, an ICMP Redirect message will be sent by the source to the router.
- D. When a router receives data on the interface via which the same data needs to be forwarded, and the source is on a different segment from the next hop, an ICMP redirect message will be sent by the router to the source

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 19

Host A wishes to send data to host C, and generates an ARP request to obtain the destination MAC address. Which statement is true?

- A. The destination IP address of the ARP request is Host C
- B. The destination MAC address of this ARP request is Host C
- C. The destination IP address for the ARP request is a broadcast IP address.
- D. The destination MAC address of this frame is the MAC address of G0/0/0 on RTA.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 20

An ARP request is sent by host A to obtain the destination MAC address of host D. Which statement is true about regarding the ARP reply?



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- A. The destination MAC address of this frame is the MAC address of Switch A.
- B. The destination IP address of this packet is the VLANIF1 IP address of Switch A.
- C. The destination MAC address of this frame is the MAC address of Host A.
- D. The destination IP address of this packet is a broadcast IP address.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

Which of the following applications can be used to detect the path along which the data packets are transmitted from the source to the destination?

- <choice ident="A">
- <choice ident="B">
- <choice ident="C">
- <choice ident="D">

- A. Route
- B. Netstat
- C. Tracert
- D. Send

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 22**

How many probe packets are sent for each TTL value by default when "tracert" is used to detect the path along which packet is sent from source to destination?

- A. 3
- B. 4
- C. 6
- D. 8

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Which of the following types can ICMP packets be classified into? (Select 2 Answers)

- A. ICMP transport packet
- B. ICMP error reporting packet
- C. ICMP query packet
- D. ICMP application packet



**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

On VRP platform, which of the following parameters can be used together with the "ping" command to specify the source address of an echo request message?

- A. A
- B. S
- C. D
- D. N

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

A router functioning as a Proxy receives an ARP request packet, but finds that the destination address in the packet is not intended for itself. In this case, what will the router do? (Select 2 Answers)

- A. Discard the packet.
- B. Check for a route that matches the destination address.
- C. Forward its MAC address to the ARP request sender after finding that a route to the destination address is available.
- D. Broadcast the ARP request packet.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 26**

Two end stations in a point-to-point network perform address resolution. Which of the following statements is correct?

- A. The destination address of an ARP request from each station will be a unicast MAC address.
- B. The destination address of an ARP request from each station will be a broadcast IP address.
- C. The destination address of an ARP reply from each station will be a unicast MAC address
- D. The destination address of an ARP reply from each station will be a broadcast MAC address.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

What will the destination MAC address be at the moment a frame is transmitted by the host, when the router is the IP destination?

- A. The MAC address of the switch.
- B. The MAC address of the router interface G0/0/0.
- C. The MAC address of the host.
- D. The destination MAC address will be a broadcast MAC address.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

Which of the following statements about gratuitous ARP packets are true? (Select 2 Answers)

- A. A system can determine whether conflicting IP addresses are used by sending a gratuitous ARP packet
- B. A gratuitous ARP packet uses the same format as an ARP request packet.
- C. A gratuitous ARP packet can help to update an IP address.
- D. A gratuitous ARP packet uses the same format as an ARP reply packet.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

UDP is connectionless oriented, which of the following must be used in order to ensure reliability?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

The administrator has configured an IP address for Host A and Host B, but had forgotten to configure a default gateway. What effect will this have on the hosts?



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- A. Neither host will be affected, and therefore will be able to communicate with the peer.
- B. Host A will be unable to connect to the router's G0/0/0 interface.
- C. Hosts will be unable to communicate unless arp-proxy is enabled on the router.
- D. The host will be unable to reach neither the local nor remote network destinations.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

A host has established a telnet connection with the router attached to interface G0/0/0. Which of the following statements are correct? (Two Answers)

- A. The destination address of a frame sent by the host will be the MAC address of the router interface.
- B. The destination address of a frame will be the MAC address of the switch interface.
- C. The destination port number in a segment header will have a value of 80.
- D. The destination IP address of a packet will be the IP address of the network interface of the router.

**Correct Answer: AD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 32**

The administrator uses the ping command on the host to test connectivity to the website www.huawei.com. The command line shows a request time out. The administrator displays the ARP entries for the host. Which entry will be found in the ARP cache table of the host?

- A. The MAC address of the destination www.huawei.com will exist in the ARP cache.
- B. The MAC address of the switch will exist in the ARP cache.
- C. The IP address of the destination www.huawei.com will exist in the ARP cache.
- D. The MAC address of router interface G0/0/0, will exist in the ARP cache.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



### **QUESTION 33**

When R2 forwards data to R3 from R1, which of the following items will change ?

(Two Answers)

- A. The source MAC address
- B. The destination MAC address
- C. The source IP address
- D. The destination IP address

**Correct Answer: AB**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 34**



If Host B also configured the IP address as “192.168.1.1/24”, an IP address conflict will occur. What will happen as a result?

- A. Host B will send an ICMP request to the destination with the configured IP address. If a reply is received, the host will notify of an address conflict.
- B. Host A will send a gratuitous ARP request to resolve the MAC address of the destination 192.168.1.1, for which Host B will reply.
- C. Host B will send a gratuitous ARP request to resolve the MAC address of the destination 192.168.1.1, for which Host A will reply.
- D. Host A will ignore any received ARP request intended for destination 192.168.1.1.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 35

<Quidway>display mac-address

-----  
MAC Address VLAN/VSID Learned-From Type  
-----

5489-98ec-f018 1/- GE0/0/13 dynamic

-----Total

items displayed = 1



Refer to the graphic. A switch attempts to forward a frame to the MAC destination 5489-98ec-f01. What operation will occur on the switch?

- A. The switch will send a request to obtain the MAC address of 5489-98ec-f011.
- B. The switch will report that the destination is unreachable and report this to the source.
- C. The switch will flood the frame via all ports, with exception of the port on which the frame was received.
- D. The switch will drop the frame because it does not have an entry in its MAC address table.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 36

Host A has been connected to switch A and configured with an IP address. When Host A initially forwards a frame, what action will be taken by Switch A?

- A. Switch A will drop this frame.
- B. Switch A will attempt to flood the frame to all ports except for the G0/0/1 interface.
- C. Switch A will forward the frame via ports G0/0/1, G0/0/2 and G0/0/3.
- D. Switch will receive this frame before returning the frame to G0/0/1.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 37

Which of the following statements describes the network shown? (Two Answers)

- A. There are 6 collision domains in the network.
- B. There are 2 broadcast domains in the network.
- C. There are 4 collision domains in the network.
- D. There are 6 broadcast domains in the network.



**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 38

A server is linked to port interface G0/0/1 of a switch. The administrator wishes to allow only this server to be linked to this interface on the switch. Which method can be used to achieve this?

- A. Configure a static ARP entry using the server's IP address and MAC address in the switch.
- B. Configure a static MAC address binding entry of the server's MAC address and the interface in the switch.
- C. Configure the default gateway of the switch to be the same as the server's IP address.
- D. It is not possible to enable a single device to be associated with an interface.

**Correct Answer:** B

**Section:** (none)

### Explanation

### Explanation/Reference:

#### QUESTION 39

An administrator connects two switches together in a local enterprise network. The ports of one switch support Fast Ethernet, while the ports of the other switch support Gigabit Ethernet. Hosts connected to one switch are able to communicate, however communication between the two switches fails. What is the possible reason for this?

- A. The ports have disabled auto-negotiation.
- B. One port is supporting auto-negotiation, while auto-negotiation is disabled on the port of the other switch.
- C. The port of one switch is operating using half duplex mode, while the port of the other switch is using full duplex mode.
- D. A Fast Ethernet port cannot communicate directly with a Gigabit Ethernet port.

**Correct Answer:** A

**Section:** (none)

### Explanation

### Explanation/Reference:



#### QUESTION 40

A layer 2 LAN switch generates CAM table entries according to the ( ) of the received frame.



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

D. Destination IP address

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 41

Which of the following statements about collision domains and broadcast domains are correct? (Select 3 Answers)

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

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 42

Which of the following statements regarding layer-2 switch is incorrect?

- A. The switch learns MAC addresses automatically
- B. The layer-3 header is modified before the received packet is transmitted
- C. The layer-2 header is modified before the received packet is transmitted.
- D. The layer-2 LAN switch operates at data link layer

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

[R1]display interface GigabitEthernet0/0/0

GigabitEthernet0/0/0 current state : Administratively DOWN

Line protocol current state : DOWN

Refer to the display output. What can be determined based on the output of the display command?

- A. Interface Gigabit Ethernet 0/0/0 is connected to a wrong cable
- B. Interface Gigabit Ethernet 0/0/0 is not associated with an IP address
- C. Interface Gigabit Ethernet 0/0/0 is not associated with a dynamically defined route.
- D. Interface Gigabit Ethernet 0/0/0 has been manually shut down by an administrator.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

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

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

Which of the following are routed protocols? (Select 2 Answers)

- A. IP

- B. OSPF
- C. BGP
- D. IPX

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 46

Which of the following statements regarding the routing table are correct? (Select 2 Answers)

- A. The next hop in the routing table is redundant because the outgoing interface can be used for packet forwarding.
- B. The routes from generated by different protocols have different preferences.
- C. The metrics of different routing protocols are comparable.
- D. The metrics of different routing protocols are not comparable

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 47

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

- A. display ip path
- B. display ip routing-table
- C. display interface
- D. display current-configuration

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 48**

Which of the following entries is not included in the routing table?

- A. source address
- B. next hop
- C. destination address
- D. cost

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

Which of the following problems are caused by routing loops? (Select 3 Answers)

- A. Slow convergence
- B. Packets circulate between routers
- C. Router restarting
- D. Inconsistency of routing information

**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

An administrator wishes to manage the router in the remote branch office, which method can be used?

- A. Telnet
- B. FTP
- C. Console Connection
- D. DHCP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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