

- **Question 1**

1 out of 1 points

Which of these IP addresses are private?

1. 10.38.200.194 2. 172.4.17.2 3. 172.16.2.9 4. 192.168.105.200 5. 193.168.30.29

Answer

Selected Answer: a.
1, 3, and 4

- **Question 2**

0 out of 1 points

A PC is attempting to acquire it's IP configuration via DHCP. What is the first type of DHCP packet that it will transmit?

Answer

Selected Answer: d.
DHCP Request

- **Question 3**

1 out of 1 points

The vty lines on a router or switch are used for:

Answer

Selected Answer: c.
remote management of the device

- **Question 4**

0 out of 1 points

Refer to the exhibit above. Assuming that the mac-address table on Switch0 is complete, and all switches are configured to allow remote management, how many MAC address entries would be recorded for the F0/1 interface on Switch0??

Answer

Selected Answer: e.
4, only the PC's connected to switch1 and Switch2 would be recorded

- **Question 5**

1 out of 1 points

What is the purpose of the preamble in an Ethernet frame?

Answer

Selected Answer: e.
none of the above

- **Question 6**

0 out of 1 points

Refer to the Wireshark capture above. What allowed the client to reach the web server application on the destination host? **Choose the best answer.**

Answer

Selected Answer: d.
port 80

- **Question 7**

1 out of 1 points

Transport layer protocols use:

Answer

Selected Answer: b.
assigned well known ports for services like http

- **Question 8**

1 out of 1 points

You have configured a switch with the intent of being able to manage it remotely. You can access the switch's CLI from the local network, but not from a remote network. What is the **most likely** cause?

Answer

Selected Answer: e.
There is no default gateway configured on the switch

- **Question 9**

1 out of 1 points

Refer to the exhibit above, and the routing tables below.:

Nets_ABC#show ip route

10.0.0.0/24 is subnetted, 1 subnets

- C 10.10.10.0 is directly connected, FastEthernet0/0
- C 192.168.100.0/24 is directly connected, FastEthernet0/1
- S 192.168.200.0/24 [1/0] via 205.211.30.2
- C 205.211.30.0/24 is directly connected, FastEthernet1/0

Nets_CDE>show ip route

10.0.0.0/24 is subnetted, 1 subnets

- S 10.10.10.0 [1/0] via 205.211.30.1
- C 172.16.0.0/16 is directly connected, FastEthernet0/1
- C 192.168.200.0/24 is directly connected, FastEthernet0/0
- C 205.211.30.0/24 is directly connected, FastEthernet1/0

You ping from Laptop0 to laptop3. What happens? (Choose 2)

Answer

Selected

c.

Answers:

Laptop0 will get a destination host unreachable message from Router
Nets_ABC

d.

Router Nets_ABC will drop the packet

- **Question 10**

1 out of 1 points

Refer to the exhibit above. The exhibit shows a small switched network and the contents of the MAC address table of the switch. PC1 has sent a frame addressed to PC2. What will the switch do with the frame?

Answer

Selected Answer: d.

The switch will forward the frame only to port 3.

- **Question 11**

1 out of 1 points

A technician is configuring a router that is actively running on the network. Suddenly, power to the router is lost. If the technician has not saved the configuration, what will be lost? (Choose two.)

Answer

Selected Answers: d.

routing table

e.

any changes in the running configuration

- **Question 12**

1 out of 1 points

Convert the following IP address into Binary: 10.50.13.50

Answer

Selected Answer: b.

00001010.00110010.00001101.00110010

- **Question 13**

1 out of 1 points

You are trying to configure an IP address on router, but it does not seem to be working. Based on the following, what is the cause?

```
Router(config)#ip address 192.168.1.1 255.255.255.192
                        ^
```

% Invalid input detected at '^' marker.

Answer

Selected Answer: b.
this is the wrong prompt

- **Question 14**

1 out of 1 points

What statement illustrates a drawback of the CSMA/CD access method on a full duplex connection between a switch and a PC?

Answer

Selected Answer: e.
This is a trick question. Collision detection is not needed in this case.

- **Question 15**

1 out of 1 points

Refer to the exhibit above, and the routing tables below.:

```
Nets_ABC#show ip route
```

```
10.0.0.0/24 is subnetted, 1 subnets
```

```
C    10.10.10.0 is directly connected, FastEthernet0/0
```

```
C    192.168.100.0/24 is directly connected, FastEthernet0/1
```

S 192.168.200.0/24 [1/0] via 205.211.30.2
C 205.211.30.0/24 is directly connected, FastEthernet1/0

Nets_CDE>show ip route

10.0.0.0/24 is subnetted, 1 subnets

S 10.10.10.0 [1/0] via 205.211.30.1

C 172.16.0.0/16 is directly connected, FastEthernet0/1

C 192.168.200.0/24 is directly connected, FastEthernet0/0

C 205.211.30.0/24 is directly connected, FastEthernet1/0

You ping from Laptop0 to laptop2. What happens? (Choose 2)

Answer

Selected Answers: c.

Laptop2 will receive the ICMP echo request from laptop0

d.

Laptop0 will get an ICMP echo response from laptop2

• **Question 16**

1 out of 1 points

The IP protocol

Answer

Selected Answer: c.

uses best effort delivery

• **Question 17**

1 out of 1 points

Put the router boot process in the correct order:

Answer

Selected Answer: c.

POST, load bootstrap, locate and load IOS, locate and load configuration file

• **Question 18**

1 out of 1 points

Which information is found in both the TCP and UDP header information?

Answer

Selected Answer: c.

source and destination port

• **Question 19**

1 out of 1 points

Refer to the exhibit above, and the routing tables below.:

Nets_ABC#show ip route

10.0.0.0/24 is subnetted, 1 subnets

- C 10.10.10.0 is directly connected, FastEthernet0/0
- C 192.168.100.0/24 is directly connected, FastEthernet0/1
- S 192.168.200.0/24 [1/0] via 205.211.30.2
- C 205.211.30.0/24 is directly connected, FastEthernet1/0

Nets_CDE>show ip route

10.0.0.0/24 is subnetted, 1 subnets

- S 10.10.10.0 [1/0] via 205.211.30.1
- C 172.16.0.0/16 is directly connected, FastEthernet0/1
- C 192.168.200.0/24 is directly connected, FastEthernet0/0
- C 205.211.30.0/24 is directly connected, FastEthernet1/0

You ping from Laptop3 to laptop0. What happens? (Choose 2)

Answer

Selected Answers: c.

Laptop3 will get a Request timed out message

d.

Laptop0 will receive the ICMP echo request from laptop3

- **Question 20**

1 out of 1 points

Each transport layer protocol has advantages and disadvantages. UDP is: (Choose two)

Answer

Selected Answers: c.
less reliable than TCP
e.
faster than TCP

- **Question 21**

0 out of 1 points

The UDP segment window size is set to 12000 bytes. The originating host has sent 12000 bytes of data, and has received an ACK from the destination with the ACK number 10501. What will the originating host do?

Answer

Selected Answer: c.
Send the UDPsegment beginning with byte 10501

- **Question 22**

1 out of 1 points

What is the broadcast address for the network 192.168.1.0/28

Answer

Selected Answer: a.
192.168.1.15

- **Question 23**

1 out of 1 points

Refer to the exhibit. PC1 issues an ARP request because it needs to send a packet to PC3. In this scenario, what will happen next?

Answer

Selected Answer: b.
RT1 will send an ARP reply with its Fa0/0 MAC address.

• **Question 24**

1 out of 1 points

How many packets are exchanged in a typical transport layer session establishment?

Answer

Selected Answer: c.
3

• **Question 25**

1 out of 1 points

Which statement is true about MAC addresses?

Answer

Selected Answer: c.
MAC addresses are hard coded to the NIC.

• **Question 26**

1 out of 1 points

The TTL in a an IPv4 header is used to:

Answer

Selected Answer: c.
Determine the number of hops until a packet is discarded

• **Question 27**

1 out of 1 points

If a node receives a frame and the calculated CRC doesn't match the CRC in the FCS, what action will the node take?

Answer

Selected Answer: d.
Drop the frame

• **Question 28**

1 out of 1 points

Select the best answer: Which of these commands will work at this prompt?

Router#

Answer

Selected Answer: b.
show running-config

• **Question 29**

1 out of 1 points

What happens if the first segment of an FTP transfer is lost?

Answer

Selected Answer: c.
The transport layer will resend the segment.

• **Question 30**

1 out of 1 points

What subnet mask is suitable (and economical) for a point to point link with two hosts?

Answer

Selected Answer: c.

255.255.255.252

- **Question 31**

1 out of 1 points

Based on the transport layer header shown in the diagram, which of the following statements describe the established session? (Choose 2)

Answer

Selected Answers: a.

This contains a Telnet request.

c.

This is a TCP header.

- **Question 32**

1 out of 1 points

You are configuring a static route from R1 to network C. What is the next hop IP address?

Answer

Selected Answer: d.

R2's Fa0/0 interface

- **Question 33**

1 out of 1 points

The CIDR notation /27 represents the subnet mask:

Answer

Selected Answer: d.

255.255.255.224

- **Question 34**

1 out of 1 points

A computer has to send a packet to a destination host in a different LAN that is several hops away. How will the packet be sent? (Choose the best answer)

Answer

Selected d.

Answer: The packet will be sent to the default gateway first, and then, if the default gateway has a route to the destination network, it will be sent towards the destination host.

- **Question 35**

1 out of 1 points

In the graphic above, Host A has reached 50% completion in sending a 1 KB Ethernet frame to Host D when Host B wishes to transmit its own frame to Host C. What must Host B do

Answer

Selected Answer: a.

Host B can transmit immediately

- **Question 36**

0.5 out of 1 points

Which of the following use UDP? (Choose two)

Answer

Selected Answers: e.

DHCP

- **Question 37**

1 out of 1 points

What happens with the destination MAC addresses and IP addresses as an ICMP echo request travels from Laptop0 to Laptop1? (Choose two.)

Answer

Selected Answers: b.

The destination IP address will not change.

c.

The destination MAC address will change 4 times

• **Question 38**

1 out of 1 points

You have been given a network with a subnet mask of 255.255.255.192. This means that you have: (Choose 2)

Answer

Selected Answers: c.

62 useable hosts addresses

d.

the CIDR notation /26

• **Question 39**

1 out of 1 points

Convert the following binary IP address to decimal:

10101100.00010000.01111001.11001000

Answer

Selected Answer: b.

172.16.121.200

• **Question 40**

1 out of 1 points

You have the IP address 205.211.30.29/27. This means that the network/subnet has:

Answer

Selected Answer: b.

30 useable host addresses