

• **Question 1**

1 out of 1 points

What is a function of Layer 2 of the OSI model?

Answer

Selected Answer: b.  
to apply framing information to the packet, based on the attached media

• **Question 2**

1 out of 1 points

Which description best defines a converged network?

Answer

Selected Answer: b.  
delivering data, voice and video over the same network

• **Question 3**

1 out of 1 points

Select the best answer: Which of these commands will work at this prompt? **Switch(config\_if)#**

Answer

Selected Answer: c.  
ip address 192.168.1.1 255.255.255.0

• **Question 4**

1 out of 3 points

Which of the following can be protected with passwords. (Choose three.)

Answer

Selected Answers: b.  
Ethernet interface  
  
d.  
privileged EXEC mode  
  
e.  
console line

• **Question 5**

2 out of 2 points

Which two statements about the relationship between LANs and WANs are true? (Choose two.)

Answer

Selected Answers: c.  
LANs are typically operated by single organizations or individuals.  
  
d.  
WANs connect LANs at slower speed bandwidth than LANs connect their internal end devices.

- **Question 6**

1 out of 1 points

What is the proper order of the layers of the OSI model from the highest layer to the lowest layer?

Answer

Selected Answer: d.

application, presentation, session, transport, network, data link, physical

- **Question 7**

1 out of 1 points

A user sends an HTTP request to a web server on a remote network. During encapsulation for this request, what information is added to the address field of a frame to indicate the destination?

Answer

Selected Answer: d.

the MAC address of the default gateway

- **Question 8**

1 out of 1 points

Refer to the Wireshark capture above. What is the layer 3 address of the web server?

Answer

Selected Answer: d.

192.168.254.254

- **Question 9**

1 out of 1 points

What command can be used to verify basic end to end connectivity?

Answer

Selected Answer: b.  
ping

- **Question 10**

1 out of 1 points

### Cable Types

Refer to the image above. Assume there is no Auto-MDIX. The link from C to D is a:

Answer

Selected Answer: b.  
Straight through cable

- **Question 11**

2 out of 2 points

A network administrator notices that some newly installed Ethernet cabling is carrying corrupt and distorted data signals. The new cabling was installed in the ceiling close to fluorescent lights and electrical equipment. Which two factors may interfere with the copper cabling and result in signal distortion and data corruption? (Choose two.)

Answer

Selected Answers: a.  
electro magnetic interference  
  
e.  
radio frequency interference

- **Question 12**

2 out of 2 points

Which two features are characteristics of flash memory? (Choose two.)

Answer

Selected Answers: d.  
The contents of flash is not lost during a power cycle.  
  
e.  
Flash memory stores a copy of the IOS. The IOS is copied into RAM when a device is powered on.

- **Question 13**

1 out of 1 points

You have just manually configured the IP addressing information on your laptop. You can communicate with other devices on your local network, but you can't reach the Internet. What is the most likely cause?

Answer

Selected Answer: c.

you forgot to set the default gateway

- **Question 14**

1 out of 1 points

Which address provides a unique host address for data communications at the data-link layer?

Answer

Selected Answer: b.

MAC address

- **Question 15**

1 out of 1 points

What statement describes the function of the Address Resolution Protocol?

Answer

Selected Answer: c.

ARP is used to discover the MAC address of any host on the local network.

- **Question 16**

1 out of 1 points

Why would you use the command *ip default-gateway* on a layer 2 switch?

Answer

Selected Answer: d.

to enable the switch to be managed from a remote network

- **Question 17**

1 out of 1 points

Cable Types

Refer to the image above. Assume there is no Auto-MDIX. The link from D to E is a:

Answer

Selected Answer: b.

Straight through cable

• **Question 18**

1 out of 1 points

During the encapsulation process, what occurs at the network layer?

Answer

Selected Answer: c.

The logical address is added.

• **Question 19**

0 out of 2 points

What are two functions of intermediary devices on a network? (Choose two.)

Answer

Selected Answer: a.

Answers: They form the interface between the human network and the underlying communication network.

c.

They direct data along alternate pathways when there is a link failure.

• **Question 20**

1 out of 1 points

A web client is sending a request for a webpage to a web server. From the perspective of the client, what is the correct order of the protocol stack that is used to prepare the request for transmission?

Answer

Selected Answer: c.

HTTP, TCP, IP, Ethernet

• **Question 21**

1 out of 1 points

You have measured the total amount of all data travelling through a port on a switch in one minute. This is known as

Answer

Selected Answer: c.

Throughput

• **Question 22**

1 out of 1 points

## Cable Types

Refer to the image above. Assume there is no Auto-MDIX. The link from B to C is a:

Answer

Selected Answer: c.

Crossover cable

- **Question 23**

1 out of 1 points

Which of the following will allow a secure remote connection to manage a switch over a network?

Answer

Selected Answer: b.

SSH

- **Question 24**

1 out of 1 points

Which statement is true about the TCP/IP and OSI models?

Answer

Selected Answer: a.

The TCP/IP transport layer and OSI Layer 4 provide similar services and functions.

- **Question 25**

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: d.

Host B can transmit immediately

• **Question 26**

1 out of 1 points

On which interface do you apply a layer 3 address on Layer 2 switch?

Answer

Selected Answer: a.

a vlan interface such as vlan1

• **Question 27**

1 out of 1 points

Which of the following is a characteristic of a deterministic MAC method?

Answer

Selected Answer: b.

Each node has a specific time to use the medium

• **Question 28**

2 out of 2 points

What two criteria are used to help select network media? (Choose two.)

Answer

Selected Answers: b.

the environment where the media is to be installed

d.

the distance the media can successfully carry a signal

• **Question 29**

1 out of 1 points

Which address does a router use to make a forwarding decision?

Answer

Selected Answer: a.

destination IP address

• **Question 30**

0 out of 1 points

A network administrator has been asked to provide a graphic representation identifying devices and IP addressing. What is this type of drawing?

Answer

Selected Answer: b.

physical topology;

• **Question 31**

1 out of 1 points

What is the specific term that is used to describe a piece of data at layer 3 of the ISO networking model?

Answer

Selected Answer: a.  
packet

• **Question 32**

1 out of 1 points

A computer in a given network is communicating to all computers in that network. What type of communication is this?

Answer

Selected Answer: a.  
broadcast

• **Question 33**

1 out of 1 points

Requiring encryption is a practice that supports which network security goal?

Answer

Selected Answer: e.  
ensuring data confidentiality

• **Question 34**

1 out of 1 points

What criterion must be followed in the design of an IPv4 addressing scheme for end devices?

Answer

Selected Answer: a.  
The network portion of the IP address must be the same for all end devices in the same network segment.

• **Question 35**

1 out of 1 points

Which procedure is used to access a new Cisco 2960 switch?

Answer

Selected Answer: d.  
Use the console port to locally access the switch from a serial or USB interface of the PC.

• **Question 36**

1 out of 1 points

Why are two strands of fiber used for a single fiber optic connection?

Answer

Selected Answer: a.  
They allow for full-duplex connectivity.

• **Question 37**

2 out of 2 points

Which statements are true about the running configuration file in a Cisco IOS device?

Answer

Selected Answers: a.

It is stored in RAM.

c.

It affects the operation of the device immediately when modified.

• **Question 38**

1 out of 1 points

What benefit does DHCP provide to a network?

Answer

Selected c.

Answer: Hosts can connect to the network and get an IP address without manual configuration.

• **Question 39**

1 out of 1 points

What is one advantage of using fiber optic cabling rather than copper cabling?

Answer

Selected Answer: a.

It is able to be installed under water.

• **Question 40**

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: a.

Drop the frame

• **Question 41**

1 out of 1 points

Refer to the exhibit above. A switch was configured as shown. A ping to the default gateway was issued, but the ping was not successful. Other switches in the same network can ping the gateway. What is the reason for this?

Answer

Selected Answer: e.

The VLAN IP address and the default gateway IP address are not in the same network.

- **Question 42**

0 out of 1 points

Refer to the exhibit above. Which set of devices contains no intermediary devices?

Answer

Selected Answer: e.

B, G, I, J

- **Question 43**

0 out of 1 points

If you use a hub to connect the devices in your network, you would have

Answer

Selected Answer: a.  
simplex communication

• **Question 44**

2 out of 2 points

What are two characteristics of 802.11 wireless networks? (Choose two.)

Answer

Selected Answers: b.  
There may be collisions on these networks.  
  
e.  
It is a shared medium.

• **Question 45**

1 out of 1 points

What do the last six hexadecimal characters in a MAC address represent?

Answer

Selected Answer: e.  
None of the above

• **Question 46**

1 out of 1 points

What can be identified by examining the network layer header, but not by examining the data-link layer header?

Answer

Selected Answer: c.  
the destination device on a remote network

• **Question 47**

0 out of 1 points

## Cable Types

Refer to the image above. Assume there is no Auto-MDIX. The link from A to B is a:

Answer

Selected Answer: c.

Crossover cable

- **Question 48**

1 out of 1 points

Exhibit 4

Refer to the exhibit 4. Assuming that the network in the exhibit is converged meaning the routing tables and ARP tables are complete, which MAC address will Host A place in the destination address field of Ethernet frames destined for www.server?

Answer

Selected Answer: b.

00-0c-85-cf-65-c0;

- **Question 49**

1 out of 1 points

What is the purpose of the FCS field in a frame?

Answer

Selected Answer: a.

to determine if errors occurred in the transmission and reception

- **Question 50**

1 out of 1 points

Which device performs the function of path determination for end to end connectivity?

Answer

Selected Answer: b.

a router