If the default gateway is misconfigured on a host, what is the consequence for communications?

a.

The host is unable to communicate on the local network.

b.

There is no impact on communications.

c.

The host can communicate with other hosts on the local network but is unable to communicate with hosts on remote networks.

d.

The host can communicate with other hosts on remote networks but is unable to communicate with hosts on the local network.

Feedback

The correct answer is:

The host can communicate with other hosts on the local network but is unable to communicate with hosts on remote networks.

Question **2**

Correct

Marked out of 2.00

Flag question

Question text

What command is used to bring up a disabled router interface?

a.

Router(config-if)# activate

b.

Router(config-if)# enable

c.

Router(config-if)# interface up

d.

Router(config-if)# no shutdown

Feedback

The correct answer is:

Router(config-if)# no shutdown

Question **3**

Correct

Marked out of 2.00

Flag question

Question text

In IPv6, how are multicast addresses represented?

a.

With the prefix 127::

b.

With the prefix FE80::

c.

With the prefix FF02::

d.

With the prefix FC00::

Feedback

The correct answer is:

With the prefix FF02::

Question **4**

Correct

Marked out of 2.00

Flag question

Question text

Which IPv6 address type is used for communication within the same network segment?

a.

Unicast

b.

Anycast

c.

Multicast

d.

Link-local Unicast

Feedback

The correct answer is:

Link-local Unicast

Question **5**

Correct

Marked out of 2.00

Flag question

Question text

How does IPv6 handle the exhaustion of available addresses compared to IPv4?

a.

Uses Network Address Translation (NAT)

b.

Implements DHCPv6

c.

Expands the address space with longer addresses

d.

Introduces a larger address space to accommodate more devices

Feedback

The correct answer is:

Introduces a larger address space to accommodate more devices

Question **6**

Correct

Marked out of 2.00

Flag question

Question text

In a collision domain, what happens when two devices transmit data simultaneously in Ethernet networking?

a.

Both devices continue transmission without interference

b.

The devices stop transmission, and a collision occurs

c.

The devices switch to a different frequency

d.

The devices negotiate and prioritize transmissions

Feedback

The correct answer is: The devices stop transmission, and a collision occurs

Question **7**

Correct

Marked out of 2.00

Flag question

Question text

What is the primary purpose of a firewall in network security?

a.

Encrypting data transmission

b.

Filtering and controlling network traffic based on predetermined security rules

c.

Managing IP addresses

d.

Resolving domain names

Feedback

The correct answer is:

Filtering and controlling network traffic based on predetermined security rules

Question **8**

Correct

Marked out of 2.00

Flag question

Question text

Which security measure prevents unauthorized devices from connecting to a network based on their MAC addresses?

a.

VPN

b.

ACL

c.

Port Security

d.

NAT

Feedback

The correct answer is:

Port Security

Question **9**

Correct

Marked out of 2.00

Flag question

Question text

In the context of network security, what does VPN stand for?

a.

Virtual Private Network

b.

Very Protected Network

c.

Virtual Public Network

d.

Validated Private Network

Feedback

The correct answer is:

Virtual Private Network

Question **10**

Correct

Marked out of 2.00

Flag question

Question text

What is the purpose of intrusion detection systems (IDS) in network security?

a.

Encrypting data transmission

b.

Filtering and controlling network traffic

c.

Detecting and alerting on suspicious activities or security breaches

d.

Authenticating users

Feedback

The correct answer is:

Detecting and alerting on suspicious activities or security breaches

Question **11**

Correct

Marked out of 2.00

Flag question

Question text

Which security protocol is commonly used for securing wireless networks?

a.

SSH

b.

HTTPS

c.

SSL

d.

WPA2-PSK

Feedback

The correct answer is:

WPA2-PSK

Question **12**

Correct

Marked out of 2.00

Flag question

Question text

What is the purpose of assigning an IP address to a switch?

a.

Provides local hosts with a default gateway address

b.

Allows remote management of the switch

c.

Allows the switch to respond to ARP requests between two hosts

d.

Ensures that hosts on the same LAN can communicate with each other

Feedback

The correct answer is:

Allows remote management of the switch

Question **13**

Correct

Marked out of 2.00

Flag question

Question text

You are creating a network-based video game. What influences your decision about which transport protocol to use for the application?

a.

UDP will not disrupt the game to retransmit dropped packets.

b.

TCP provides extra acknowledgements that will ensure smooth video delivery.

c.

Both TCP and UDP can be used simultaneously to ensure speed and guaranteed delivery.

d.

Both TCP and UDP may slow transmission and disrupt game operation, so no transport protocol should be used.

Feedback

The correct answer is:

UDP will not disrupt the game to retransmit dropped packets.

Question **14**

Correct

Marked out of 2.00

Flag question

Question text

What command can be used to display the ARP table on a cisco router?

a.

show arp ip route

b.

show ip arp

c.

show arp ip route brief

d.

show arp interface brief

Feedback

The correct answer is:

show ip arp

Question **15**

Correct

Marked out of 2.00

Flag question

Question text

An Internet server is running both FTP and HTTP services. How does the server know which of these applications should handle an incoming segment?

a.

The packet header identifies it as an HTTP or FTP packet.

b.

The data in the segment is specially formatted for either HTTP or FTP.

c.

The segment destination port number identifies the application that should handle it.

d.

The source port number is associated with one of these well known server applications.

Feedback

The correct answer is:

The segment destination port number identifies the application that should handle it.

Question **16**

Correct

Marked out of 2.00

Flag question

Question text

A technician has made changes to the configuration of a router. What command will allow the technician to view the current configuration before he saves the changes?

a.

router# **show running-config**

b.

router# **show startup-config**

c.

router# **show flash**

d.

router# **show version**

Feedback

The correct answer is:

router# **show running-config**

Question **17**

Correct

Marked out of 2.00

Flag question

Question text

After troubleshooting a router, the network administrator wants to save the router configuration so that it will be used automatically the next time that the router reboots. What command should be issued?

a.

copy startup-config flash

b.

copy running-config startup-config

c.

reload

d.

copy startup-config running-config

Feedback

The correct answer is:

copy running-config startup-config

Question **18**

Correct

Marked out of 2.00

Flag question

Question text

What type of route is indicated by the code C in an IPv4 routing table on a Cisco router?

a.

static route

b.

default route

c.

directly connected route

d.

dynamic route that is learned through EIGRP

Feedback

The correct answer is:

directly connected route

Question **19**

Correct

Marked out of 2.00

Flag question

Question text

How does the service password-encryption command enhance password security on Cisco routers and switches?

a.

It encrypts passwords as they are sent across the network.

b.

It encrypts passwords that are stored in router or switch configuration files.

c.

It requires that a user type encrypted password to gain console access to a router or switch.

d.

It requires encrypted passwords to be used when connecting remotely to a router or switch with Telnet.

Feedback

The correct answer is:

It encrypts passwords that are stored in router or switch configuration files.