



98-366^{Q&As}

MTA Networking Fundamentals

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QUESTION 1

A router's static route is set by the:

- A. Adjacent network
- B. Next upstream router
- C. Network administrator
- D. Routing protocol

Correct Answer: C

Static routing is a form of routing that occurs when a router uses a manually-configured routing entry, rather than information from a dynamic routing protocol to forward traffic.

QUESTION 2

A node within a local area network (LAN) must have which two of the following? (Choose two.)

- A. Username and password
- B. Share name
- C. NIC
- D. IP address
- E. Table of all network nodes

Correct Answer: CD

A node must be able to access the LAN through a network interface. A node must also have an IP address.

QUESTION 3

This question requires that you evaluate the underlined text to determine if it is correct.

All devices on your company network connect to the same network switch. This is an example of a physical star topology.

Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

- A. ring
- B. bus
- C. mesh



D. No change is needed

Correct Answer: D

QUESTION 4

You are trying to access a music sharing service on the Internet. The service is located at the IP address 173.194.75.105. You are experiencing problems connecting. You run a trace route to the server and receive the output shown in the following image:

```
C:\>tracert -d 173.194.75.105

Tracing route to 173.194.75.105 over a maximum of 30 hops

  0  <1 ms    <1 ms    <1 ms    10.0.0.1
  1  25 ms    29 ms    29 ms    174.57.168.1
  2   9 ms     9 ms     9 ms    68.85.76.249
  3  10 ms    9 ms     9 ms    68.86.210.25
  4  14 ms    15 ms    18 ms    68.86.92.161
  5  15 ms    16 ms    13 ms    68.86.86.142
  6  14 ms    14 ms    14 ms    75.149.231.62
  7  14 ms    15 ms    15 ms    209.85.252.80
  8  17 ms    16 ms    17 ms    72.14.236.146
  9  27 ms    28 ms    28 ms    209.85.241.222
 10  26 ms    25 ms    26 ms    216.239.48.157
 11  *         *         *         Request timed out.
 12  27 ms    26 ms    25 ms    173.194.75.105

Trace complete.

C:\>
```

Use the drop-down menus to select the answer choice that completes each statement. Each correct selection is worth one point.

Hot Area:

Answer Area

Each hop in the trace route is a [answer choice]

router.
switch.
firewall.

The trace route completed [answer choice]

successfully.
unsuccessfully.
with an unknown status.

Correct Answer:



Answer Area

Each hop in the trace route is a [answer choice]

router.
switch.
firewall.

The trace route completed [answer choice]

successfully.
unsuccessfully.
with an unknown status.

QUESTION 5

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
IPsec can be used to secure network communications between two machines.	<input type="radio"/>	<input type="radio"/>
IPsec can be used to secure network communication between two networks.	<input type="radio"/>	<input type="radio"/>
IPsec network traffic is always encrypted.	<input type="radio"/>	<input type="radio"/>

Correct Answer:



Answer Area

	Yes	No
IPsec can be used to secure network communications between two machines.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IPsec can be used to secure network communication between two networks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IPsec network traffic is always encrypted.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

QUESTION 6

What are two differences between switches and hubs? (Choose two.)

- A. Switches are slower than hubs because of the extra addressing functions that switches perform.
- B. Switches send data to all of the computers that are connected to them for efficiency.
- C. Switches are capable of sending and receiving data at the same time.
- D. Switches identify the intended destination of the data that they receive.

Correct Answer: AD

Hubs repeat everything they receive and can be used to extend the network.

Switches control the flow of network traffic based on the address information in each packet. A switch learns which devices are connected to its ports (by monitoring the packets it receives), and then forwards on packets to the appropriate port

only. This allows simultaneous communication across the switch, improving bandwidth.

QUESTION 7

What is the DNS record type that specifies an alias name of another address record?

- A. MX
- B. CNAME
- C. NS
- D. SOA



Correct Answer: B

CNAME stands for Canonical Name. CNAME records can be used to alias one name to another.

QUESTION 8

For each of the following statements, select Yes if the statement is true. Otherwise, select No. Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
21DA:D3:0:2F3B:2AA:FF:FE28:9C5A is a valid IPv6 unicast address.	<input type="checkbox"/>	<input type="checkbox"/>
FE80::2AA:FF:FE28:9C5A is a valid IPv6 address.	<input type="checkbox"/>	<input type="checkbox"/>
21DA::02AA::FF:FE28:9C5A is a valid IPv6 address.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

Answer Area

	Yes	No
21DA:D3:0:2F3B:2AA:FF:FE28:9C5A is a valid IPv6 unicast address.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FE80::2AA:FF:FE28:9C5A is a valid IPv6 address.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21DA::02AA::FF:FE28:9C5A is a valid IPv6 address.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

QUESTION 9

A node within a local area network (LAN) must have a network interface device and a:



- A. Network account
- B. Table of all network nodes
- C. Host address
- D. Resource to share

Correct Answer: C

In network addressing, the host address, or the host ID portion of an IP address, is the portion of the address used to identify hosts (any device requiring a Network Interface Card, such as a PC or networked printer) on the network.

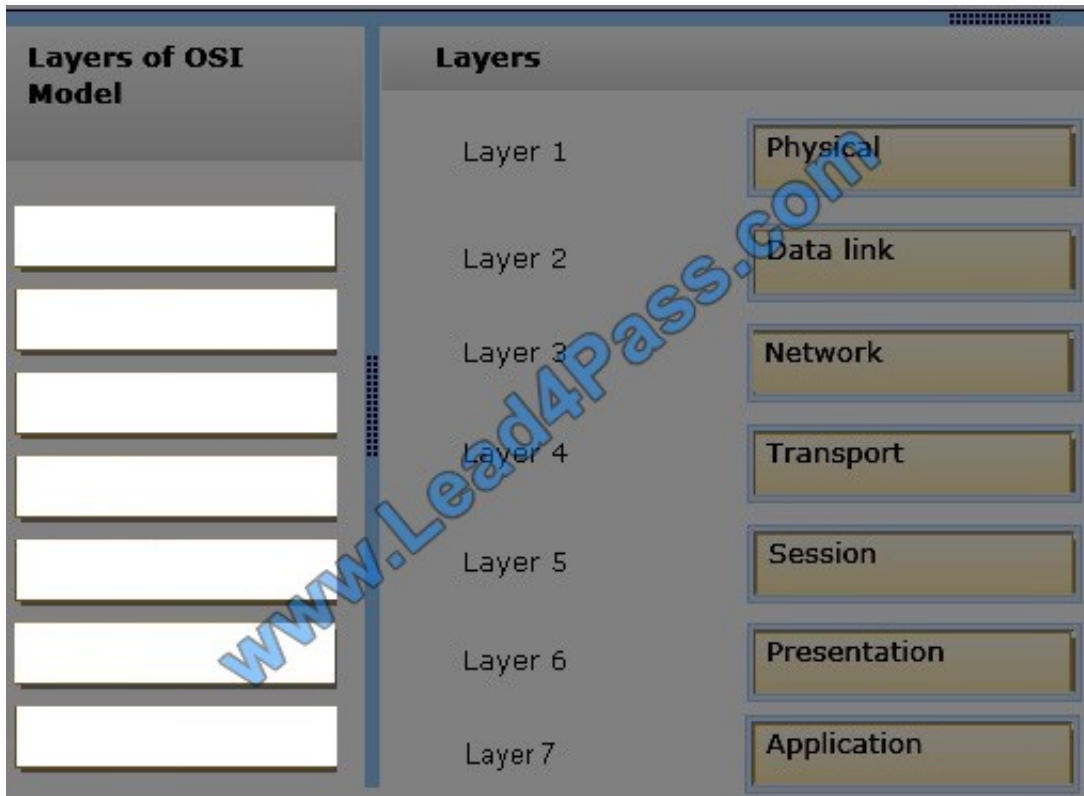
QUESTION 10

Order the layers of the OSI model:

Select and Place:

The image shows a digital interface for ordering the layers of the OSI model. On the left, under the heading "Layers of OSI Model", there are eight yellow buttons with the following labels from top to bottom: Application, Data link, Network, Physical, Presentation, Session, and Transport. On the right, under the heading "Layers", there are seven empty grey boxes labeled "Layer 1" through "Layer 7" from top to bottom. A vertical dotted line separates the two columns. A large, diagonal watermark "www.Lead4Pass.com" is overlaid across the interface.

Correct Answer:



QUESTION 11

A cable that meets the 1000BaseT standard has a maximum length of:

- A. 100 m
- B. 250 m
- C. 500 m
- D. 1,000 m

Correct Answer: A

When used for 10/100/1000BASE-T, the maximum allowed length of a Cat 6 cable is 100 meters or 328 feet.

QUESTION 12

A university has network links between various locations. Where would a T3 connection be appropriate?

- A. Server to network in the main campus server room
- B. Main campus to a large satellite campus
- C. Computer lab PC to lab printer



D. Library laptop PC to Internet

Correct Answer: A

T3 lines are a common aggregation of 28 T1 circuits that yields 44.736 Mbps total network bandwidth . Besides being used for long-distance traffic, T3 lines are also often used to build the core of a business network at its headquarters

QUESTION 13

Which utility would you use to determine if your Domain Name System (DNS) server is properly resolving fully qualified domain names (FQDNs) as IP addresses?

- A. netstat
- B. nslookup
- C. nbtstat
- D. ipconfig

Correct Answer: D

References: <https://docs.microsoft.com/en-us/windows-server/administration/windows-commands/ipconfig>

QUESTION 14

You need to run four Ethernet network drops. Each drop is approximately 125 feet/46.33 meters.

An interference exists along the path of each drop.

You need to ensure that interference is reduced.

Which cable type should you use?

- A. STP Cat5e
- B. UTPCat5e
- C. Cat3
- D. UTPCat6

Correct Answer: A

Shielded cable, here STP Cat5e, would reduce interference.

QUESTION 15

Match each IP address to its corresponding IPv4 address class.

To answer, drag the appropriate IP address from the column on the left to its IPv4 address class on the right. Each IP



address may be used once, more than once, or not at all. Each correct match is worth one point.

Select and Place:

IP Addresses	Answer Area
133.234.23.2	Class A IP Address
224.100.20.3	Class B IP Address
201.111.22.3	Class C IP Address
64.123.12.1	Class D IP Address

Correct Answer:

IP Addresses	Answer Area
	Class A 64.123.12.1
	Class B 133.234.23.2
	Class C 201.111.22.3
	Class D 224.100.20.3

QUESTION 16

The command-line tool used to list a host's active incoming connections is:



- A. NETSTAT
- B. IPCONFIG
- C. NSLOOKUP
- D. PING

Correct Answer: A

Used without parameters, netstat displays active TCP connections.

Note: Netstat displays active TCP connections, ports on which the computer is listening, Ethernet statistics, the IP routing table, IPv4 statistics (for the IP, ICMP, TCP, and UDP protocols), and IPv6 statistics (for the IPv6, ICMPv6, TCP over IPv6, and UDP over IPv6 protocols).

QUESTION 17

Which network device interconnects computers in a workgroup, is able to be remotely configured, and provides the best throughput?

- A. Unmanaged switch
- B. Hub
- C. Router
- D. Managed switch

Correct Answer: D

Managed switches ?these switches have one or more methods to modify the operation of the switch. Common management methods include: a command-line interface (CLI) accessed via serial console, telnet or Secure Shell, an embedded

Simple Network Management Protocol (SNMP) agent allowing management from a remote console or management station, or a web interface for management from a web browser.

Incorrect:

not A: Unmanaged switches are basic plug-and-play switches with no remote configuration, management, or monitoring options, although many can be locally monitored and configured via LED indicators and DIP switches.

Not B: Hubs cannot be managed.

Not C: Switches are faster than routers.

QUESTION 18

The protocol that maps IP addresses to a Media Access Control (MAC) address is:

- A. Internet Message Access Protocol (IMAP).



- B. Dynamic Host Configuration Protocol (DHCP).
- C. Routing Information Protocol (RIP).
- D. User Datagram Protocol (UDP).
- E. Address Resolution Protocol (ARP).

Correct Answer: E

Address Resolution Protocol (ARP) is a protocol for mapping an Internet Protocol address (IP address) to a physical machine address (MAC address) that is recognized in the local network.

QUESTION 19

Which of these represents the Internet Protocol version 6 (IPv6) loopback address?

- A. 127.0.0.1
- B. 192.168.0.1
- C. FEC0:A8C0::AA01
- D. ::1

Correct Answer: D

The localhost (loopback) address, 0:0:0:0:0:0:0:1, and the IPv6 unspecified address, 0:0:0:0:0:0:0:0, are reduced to ::1 and ::, respectively.

QUESTION 20

Which two of the following are connectivity options for wide area networks (WANs)? (Choose two.)

- A. Token ring
- B. Ethernet
- C. Dial-up
- D. Leased line

Correct Answer: CD

Token ring and Ethernet are used in LANs.

QUESTION 21

Which of the following uses a tunneling protocol?

- A. Internet



- B. VPN
- C. Extranet
- D. VLAN

Correct Answer: B

Tunneling enables the encapsulation of a packet from one type of protocol within the datagram of a different protocol. For example, VPN uses PPTP to encapsulate IP packets over a public network, such as the Internet.

QUESTION 22

What are two characteristics of the CSMA/CD access method? (Choose two.)

- A. It checks to see if a collision has been detected.
- B. It does a round robin search for requests to transmit from all nodes on the network.
- C. It signals its intent to transmit on the network.
- D. It waits until the transmission medium is idle.

Correct Answer: AD

Main procedure for the CSMA/CD:

1.
Is my frame ready for transmission? If yes, it goes on to the next point.
2.
Is medium idle? If not, wait until it becomes ready
3.
Start transmitting.
4.
Did a collision occur? If so, go to collision detected procedure.
5.
Reset retransmission counters and end frame transmission.

Note:

Carrier Sense Multiple Access With Collision Detection (CSMA/CD) is a media access control method used most notably in local area networking using early Ethernet technology. It uses a carrier sensing scheme in which a transmitting data

station detects other signals while transmitting a frame, and stops transmitting that frame, transmits a jam signal, and then waits for a random time interval before trying to resend the frame.



QUESTION 23

This question requires that you evaluate the underlined text to determine if it is correct.

An ICMP ping message is sent at the application layer of the OSI model.

Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

- A. network
- B. transport
- C. data-link
- D. No change is needed

Correct Answer: A

QUESTION 24

The default subnet mask for a Class B network is:

- A. 0.0.0.255
- B. 0.0.255.255
- C. 255.0.0.0
- D. 255.255.0.0

Correct Answer: D

Class A default subnet mask is 255.0.0.0. Class B default subnet mask is 255.255.0.0. Class C default subnet mask is 255.255.255.0.

QUESTION 25

This question requires that you evaluate the underlined text to determine if it is correct.

An Address Resolution Protocol (ARP) table is used to associate IP addresses with "host names".

Select the correct answer if the underlined text does not make the statement correct. Select "No change is needed" if the underlined text makes the statement correct.

- A. MAC addresses
- B. HomeGroup membership
- C. Preferred routers



D. No change is needed

Correct Answer: A

Address Resolution Protocol (ARP) is a protocol for mapping an Internet Protocol address (IP address) to a physical machine address (MAC address) that is recognized in the local network.

QUESTION 26

This question requires that you evaluate the underlined text to determine if it is correct.

Plain old telephone service (POTS), most ISDN lines, and switched T1 lines are all examples of "Message Switching".

Select the correct answer if the underlined text does not make the statement correct. Select "No change is needed" if the underlined text makes the statement correct.

- A. Circuit Switching
- B. Packet Switching
- C. FDDI Switching
- D. No change is needed

Correct Answer: A

*

Examples of circuit-switched networks Public switched telephone network (PSTN) ISDN B-channel

*

You can get a circuit-switched T1, while frames clouds on T1s are usually packet-switched.

QUESTION 27

This question requires that you evaluate the underlined text to determine if it is correct.

The 802.11n wireless standard specifies a maximum data rate of 54 Mbps.

Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

- A. 10 Mbps
- B. 11-128 Mbps
- C. 300-600 Mbps
- D. No change is needed

Correct Answer: C



QUESTION 28

For which two reasons should you use IPsec between computers? (Choose two.)

- A. Data compression
- B. Data integrity
- C. Data redundancy
- D. Data confidentiality

Correct Answer: BD

IPSEC (Internet Protocol Security) is a security protocol that provides encryption and authentication over the Internet. IPSEC supports network-level data integrity, data confidentiality, data origin authentication, and replay protection.

QUESTION 29

You run the ipconfig command. The output is shown in the following image:

```
Windows IP Configuration

Wireless LAN adapter Wireless Network Connection 3:
    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  :

Wireless LAN adapter Wireless Network Connection:
    Connection-specific DNS Suffix  :
    IPv6 Address. . . . . : 2602:304:aecf:a929:cce2:4be1:be2a:260
    Temporary IPv6 Address. . . . . : 2602:304:aecf:a929:f09e:893:6519:6a2
    Link-local IPv6 Address . . . . . : fe80::cce2:4be1:be2a:260%17
    IPv4 Address. . . . . : 192.168.1.65
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

From these settings, you can tell that the computer:

- A. Will have limited Internet access
- B. Will have full Internet access
- C. Will not be able to access the Internet
- D. Will not be able to access the local network

Correct Answer: A

QUESTION 30



A Media Access Control (MAC) address identifies a/an:

- A. UPnP device.
- B. Local broadcast domain.
- C. Network interface card (NIC).
- D. Local area network (LAN).

Correct Answer: C

A media access control address (MAC address) is a unique identifier assigned to network interfaces for communications on the physical network segment.

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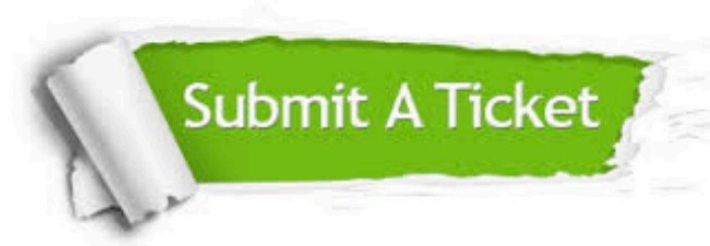
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