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Microsoft

98-366 PRACTICE EXAM

MTA Networking Fundamentals

Product Questions: 176

Version: 11.0

Question: 1

One advantage of dynamic routing is that it:

- A. Automatically maintains routing tables.
- B. Limits traffic derived from routing protocols.
- C. Reduces broadcast traffic.
- D. Automatically enables DHCP.

Answer: A

Question: 2

Which of the following represents a Media Access Control (MAC) address?

- A. GV:ZC:KK:DK:FZ:CA
- B. 255.255.255.0
- C. 05:35:AB:6E:Al:25
- D. 127.0.0.1

Answer: C

Question: 3

Connecting to a private network address from a public network requires:

- A. Network address translation (NAT).
- B. Dynamic Host Configuration Protocol (DHCP).
- C. Network Access Protection (NAP).
- D. Dynamic domain name system (DDNS).

Answer: A

Question: 4

A network device that associates a Media Access Control (MAC) address with a port is a:

- A. DSL modem
- B. Hub
- C. Router
- D. Switch

Answer: D

Question: 5

A Layer 2 device that connects multiple computers within a network is a:

- A. Repeater
- B. Switch
- C. Router
- D. Packet

Answer: B

Question: 6

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

Answer: A

Question: 7

A router's static route is set by the:

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

Answer: C

Question: 8

Which setting is used to determine the Domain Name System (DNS) settings on a client computer?

- A. TELNET
- B. NSLOOKUP
- C. PATHPING
- D. NETSTAT

Answer: B

Question: 9

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

Answer: D

Question: 10

The default port used for SMTP is:

- A. 23
- B. 25
- C. 80
- D. 8080

Answer: B

Question: 11

The ping tool is used to: (Choose two.)

- A. Determine the network portion of a host address.
- B. Self-test a host's own network interface.
- C. Determine whether a host is reachable.
- D. Manage a host's session when UDP is used.

Answer: B, C

Question: 12

Which of the following are features of DHCP? (Choose two.)

- A. IP address resolution to canonical names
- B. Secure shell connections
- C. Address reservation
- D. Network file transfer
- E. IP address exclusion

Answer: C, E

Question: 13

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

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

D. PING

Answer: A

Question: 14

A computer that has an IP address of 169.254.0.1 cannot access the network. Which of the following services should you confirm is available?

- A. WINS
- B. DNS
- C. DHCP
- D. TFTP

Answer: C

Question: 15

Which network does the IP address 220.100.100.100 belong to?

- A. 220.100.100.0/24
- B. 220.100.100.1/24
- C. 255.255.255.0/24
- D. 255.255.255.1/24

Answer: A

Question: 16

Which subnet mask is valid?

- A. 255.255.255.240
- B. 255.255.255.228
- C. 255.255.255.164
- D. 255.255.255.245

Answer: A

Question: 17

A service that resolves NetBIOS names to IP addresses is:

- A. Domain Name Service (DNS).
- B. Internet Service Provider (ISP).
- C. Address Resolution Protocol (ARP).
- D. Windows Internet Name Service (WINS).

Answer: D

Question: 18

What type of DNS record maps host names to addresses?

- A. Mail Exchanger (MX) DNS record
- B. Service (SRV) DNS record
- C. Host (A) DNS record
- D. Canonical (CNAME) DNS record

Answer: C

Question: 19

Teredo tunneling is a protocol that:

- A. Translates Internet Protocol version 4 (IPv4) to Internet Protocol version 6 (IPv6).
- B. Allows IPv6 connectivity through IPv4 devices.
- C. Provides VPN security.
- D. Dynamically allocates IPv6 addresses.

Answer: B

Question: 20

What is the default subnet mask for a Class C Internet network?

- A. 255.255.255.252
- B. 255.255.255.240
- C. 255.255.255.192
- D. 255.255.255.0

Answer: D

Question: 21

The default port used for telnet is:

- A. 23
- B. 25
- C. 80
- D. 8080

Answer: A

Question: 22

When a client's DHCP-issued address expires, the client will:

- A. Select a new address and request approval from the DHCP server.
- B. Require manual configuration with a static IP address.
- C. Attempt to obtain a new address by broadcasting.
- D. Continue to use the address until it is notified to stop.

Answer: C

Question: 23

You ping a server by using fully qualified domain name (FQDN) and do not receive a response. You then ping the same server by using its IP address and receive a response.

Why do you receive a response on the second attempt but not on the first attempt?

- A. PING is improperly configured.
- B. The DNS is not resolving.
- C. The DHCP server is offline.
- D. NSLOOKUP is stopped.

Answer: B

Question: 24

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).

Answer: C

Question: 25

Two companies want to share data by using the Internet.

Which type of network provides the solution?

- A. Ethernet
- B. Intranet
- C. Extranet
- D. Perimeter

Answer: C

Question: 26

VPNs are implemented to provide:

- A. A secure connection within a private network.

- B. A secure connection through public networks.
- C. Additional encryption by using IPSec.
- D. Additional security for selected computers.

Answer: B

Question: 27

If an 802.11g Internet connection has connectivity problems, what may be the cause?

- A. A cordless phone
- B. A cellular phone
- C. Incandescent lights
- D. Electromagnetic interference (EMI)

Answer: D

Question: 28

Which of these factors has the biggest impact on data transmission speed in a wireless network?

- A. The access method used for the network
- B. The transmission standard of the equipment used
- C. The use of strong encryption for transmissions
- D. The transmission wattage rating used on the NIC

Answer: B

Question: 29

Which of the following uses a tunneling protocol?

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

Answer: B

Question: 30

A network that separates an organization's private network from a public network is a/an:

- A. Firewall
- B. Extranet
- C. Perimeter
- D. Internet

Answer: C

Question: 31

Which type of network is most vulnerable to intrusion?

- A. Dial-up
- B. Wireless
- C. Broadband
- D. Leased line

Answer: B

Question: 32

Attenuation in a wireless network signal is a result of:

- A. Number of wireless nodes connected.
- B. Distance from the access point.
- C. Interference from cellular phones.
- D. Encryption of the signal.

Answer: B

Question: 33

Which type of network covers the broadest area?

- A. WAN
- B. CAN
- C. LAN
- D. PAN

Answer: A

Question: 34

In local area network (LAN) topologies, the primary media access methods are: (Choose two.)

- A. Contention
- B. Negotiation
- C. Kerberos
- D. Token passing

Answer: A, D

Question: 35

In a physical star topology, the central device is referred to as a:

- A. Bridge
- B. Server
- C. segmenter
- D. Hub

Answer: D

Question: 36

Which technology can you use to extend an internal network across shared or public networks?

- A. VLAN
- B. Microsoft ASP-NET
- C. Microsoft .NET Framework
- D. VPN

Answer: D

Question: 37

Which two are published IEEE 802.11 wireless transmission standards? (Choose two.)

- A. 802.11f
- B. 802.11g
- C. 802.11k
- D. 802.11m
- E. 802.11n

Answer: B, E

Question: 38

What happens when an 802.11b node starts broadcasting within the range of an 802.11g access point?

- A. The access point will transmit, but the node will be unable to receive.
- B. A connection will be established,
- C. Both the node and the access point will be unable to transmit.
- D. The node will transmit, but the access point will be unable to receive.

Answer: B

Question: 39

Which technology provides the highest bit rate?

- A. T1
- B. E1

- C. DS3
- D. ISDN

Answer: C

Question: 40

A VPN is a/an:

- A. Encrypted connection across the Internet.
- B. Virtual network within your local area network (LAN).
- C. Communication tunnel between VLANs.
- D. Personal network for your use only.

Answer: A

Question: 41

Which of the following determines the media access method that is used in a network?

- A. Number of hosts connected to the network
- B. Number of domain servers on the segment
- C. Maximum speed of the media
- D. Topology and protocols

Answer: D

Question: 42

Which wireless authentication method provides the highest level of security?

- A. Wired Equivalency Privacy (WEP)
- B. IEEE 802.11n
- C. WI-FI Protected Access (WPA)
- D. IEEE 802.11a

Answer: C

Question: 43

The topology of a local area network (LAN) is defined by the:

- A. Number of devices to connect.
- B. Physical and logical characteristics.
- C. Distance between workstations.
- D. Type of cable being used.

Answer: B

Question: 44

The maximum throughput of an 802.11g network is:

- A. 2.4 GHz.
- B. 54 GHz.
- C. 2.4 Mbps
- D. 54 Mbps.

Answer: D

Question: 45

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

Answer: C

Question: 46

Which of the following is a Layer 2 WAN protocol?

- A. Point-to-Point Protocol (PPP)
- B. Simple Network Management Protocol (SNMP)
- C. Transmission Control Protocol (TCP)
- D. Internet Protocol (IP)

Answer: A

Question: 47

Which type of port is used to support VLAN traffic between two switches?

- A. Virtual port
- B. WAN port
- C. Trunk port
- D. LAN port

Answer: C

Question: 48

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).

Answer: E

Question: 49

A user reports that she cannot connect to network resources from a computer on the company network. The user was able to connect to the network resources yesterday.

You verify that the user's computer is properly physically connected to the network. You discover that the computer's IP address is 169.254.48.97.

You need to restore access to network resources.

What should you do next?

- A. Flush the cache on the DNS server.
- B. Reset the user's password on the server.
- C. Check your router's current routing tables.
- D. Verify that the DHCP service is available.

Answer: D

Question: 50

The host name of the fully qualified domain name (FQDN) mail.exchange.corp.nwtraders.com is:

- A. corp
- B. com
- C. nwtraders
- D. exchange
- E. mail

Answer: E

Question: 51

To which IP configuration does the CIDR notation 192.168.1.1/25 refer?

- A. 192.168.1.1 255.255.255.64
- B. 192.168.1.1 255.255.255.1
- C. 192.168.1.1 255.255.255.32
- D. 192.168.1.1 255.255.255.256
- E. 192.168.1.1 255.255.255.128

Answer: E

Question: 52

Which command is used to verify that a server is connected to the network?

- A. IPCONFIG
- B. ROUTE
- C. PING
- D. CHECK

Answer: C

Question: 53

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

Answer: D

Question: 54

Which of these addresses is a multicast address?

- A. 127.0.0.1
- B. 169.254.0.1
- C. 192.168.0.1
- D. 224.0.0.1

Answer: D

Question: 55

Which of the following uses pointer records and A records?

- A. IDS
- B. DNS Server
- C. NAT Server
- D. IPS

Answer: B

Question: 56

The ipconfig command will:

- A. Configure routers
- B. Display a client's address
- C. Display a client's broadcast mode
- D. Configure DHCP clients

Answer: B

Question: 57

One reason to incorporate VLANs in a network is to:

- A. Increase the number of available IP addresses.
- B. Increase the number of available Media Access Control (MAC) addresses.
- C. Reduce the number of broadcast domains.
- D. Reduce the number of nodes in a broadcast domain.

Answer: D

Question: 58

Which of these is an application layer protocol?

- A. TCP
- B. FTP
- C. IP
- D. UDP

Answer: B

Question: 59

The top-level domain of www.adventureworks.com is:

- A. www
- B. adventureworks
- C. adventureworks.com
- D. com

Answer: D

Question: 60

At what layer in the OSI model are hardware addresses referenced?

- A. Network
- B. Application
- C. Data link
- D. Physical

Answer: C

Question: 61

You need to divide a network into three subnets.
Which device should you use?

- A. Hub
- B. Bridge
- C. Router
- D. Segmenter

Answer: C

Question: 62

The type of connector used on a 100BaseT Ethernet cable is:

- A. RJ-11
- B. RJ-45.
- C. TNC.
- D. BNC.

Answer: B

Question: 63

In addition to switching, multilayer switches also:

- A. Provide Layer 3 routing functions.
- B. Interface with CAT3, CAT5, CAT5e, and fiber optics.
- C. Support 10 MB, 100 MB, and 1 GB local area network (LAN) ports.
- D. Operate by using only Layer 1 and 2 protocols.

Answer: A

Question: 64

One reason to replace an unmanaged switch with a managed switch is to:

- A. Manage the routing tables.
- B. Support multiple VLANs.
- C. Reduce collision domains.
- D. Route between networks,

Answer: B

Question: 65

To directly connect the Ethernet network interface cards (NICs) of two computers, you should use a:

- A. Crossover cable
- B. Straight cable
- C. Rollover cable
- D. Coaxial cable

Answer: A

Question: 66

The function of a router is to:

- A. Provide IP subnet masks for hosts.
- B. Forward traffic to other networks.
- C. Broadcast routing tables to clients.
- D. Store tables for name resolution.

Answer: B

Question: 67

If a router cannot determine the next hop for a packet, the router will:

- A. Forward the packet to the default route.
- B. Send the packet back to the packet's source.
- C. Broadcast the packet.
- D. Store the packet in the memory buffer.

Answer: A

Question: 68

In which physical network topology is each computer connected to a central point?

- A. Star
- B. Mesh
- C. Ring
- D. Bus

Answer: A

Question: 69

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

Answer: C, D

Question: 70

A private network that allows members of an organization to exchange data is an:

- A. Extranet
- B. Ethernet
- C. Intranet
- D. Internet

Answer: C

Question: 71

Security is a concern on wireless networks due to:

- A. The radio broadcast access method.
- B. Spread spectrum issues.
- C. Frequency modulation issues.
- D. The potential for cross-talk.

Answer: A

Question: 72

A characteristic of the mesh topology is that it:

- A. Uses a central hub.
- B. Cannot use wired connections.
- C. Uses redundant paths.
- D. Cannot use wireless connections.

Answer: C

Question: 73

To protect a network when it is connected to the Internet, you should use a:

- A. Bridge
- B. Firewall
- C. Switch
- D. Router

Answer: B

Question: 74

One purpose of a perimeter network is to:

- A. Make resources available to the intranet.
- B. Link campus area networks (CANs).
- C. Link local area networks (LANs).
- D. Make resources available to the Internet.

Answer: D

Question: 75

Which protocol can be used to encrypt packets on the Internet?

- A. SNMP
- B. HTTPS
- C. TFTP
- D. HTTP

Answer: B

Question: 76

The service that resolves fully qualified domain names (FQDN) to IP addresses is:

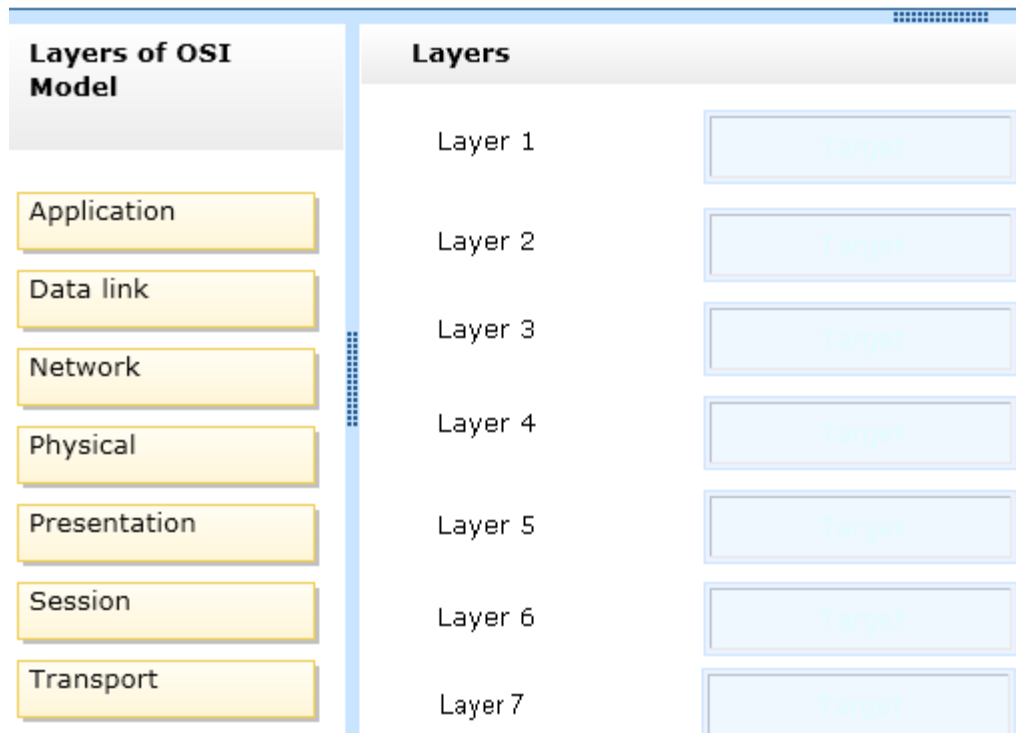
- A. Windows Internet Name Service (WINS).
- B. Domain Name Service (DNS).
- C. Internet Service Provider (ISP).
- D. Address Resolution Protocol (ARP).

Answer: B

Question: 77

DRAG DROP

Order the layers of the OSI model:



Answer:

Layer 1	Physical
Layer 2	Data link
Layer 3	Network
Layer 4	Transport
Layer 5	Session
Layer 6	Presentation
Layer 7	Application

Question: 78

If a router is installed so that it separates a DHCP server from its clients, the clients will:

- A. Immediately lose connectivity to all segments.
- B. Be unable to obtain their leases from the server.
- C. Immediately lose connectivity to the local segment.
- D. Receive an immediate renewal of their lease.

Answer: B

Question: 79

Which of the following services masks internal IP addresses from outside the network?

- A. DHCP
- B. WINS
- C. NAT
- D. DNS

Answer: C

Question: 80

The query protocol used to locate resources on a network is:

- A. User Datagram Protocol (UDP).
- B. Lightweight Directory Access Protocol (LDAP),
- C. Tracert
- D. Telnet.

Answer: B

Question: 81

Tracert is used to:

- A. Manage routing tables dynamically.
- B. Manage session-oriented connections between nodes.
- C. Report the route taken by packets across an IP network.
- D. Report the shortest route between different networks.

Answer: C

Question: 82

In which OSI layer does routing occur?

- A. Transport
- B. Network
- C. Data Link
- D. Physical

Answer: B

Question: 83

What type of record does DNS use to find a mail service?

- A. Service (SRV) DNS record
- B. Canonical (CNAME) DNS record
- C. Mail Exchanger (MX) DNS record
- D. Host (A) DNS record

Answer: C

Question: 84

The default gateway address identifies the:

- A. Device that will connect the computer to the local network.
- B. Device that will connect the computer to a remote network.
- C. Server that will provide name services for the computer.
- D. Server that will authenticate the user of the computer.

Answer: B

Question: 85

How many bits are there in an Internet Protocol version 6 (IPv6) address?

- A. 32
- B. 64
- C. 128
- D. 256

Answer: C

Question: 86

Which of the following is a public IP address?

- A. 10.156.89.1
- B. 68.24.78.221
- C. 172.16.152.48
- D. 192.168.25.101

Answer: B

Question: 87

What is the minimum cabling requirement for a 100BaseTX network?

- A. Category 3 UTP cable
- B. Category 5 UTP cable
- C. Category 6 UTP cable
- D. Multimode fiber cable

Answer: A

New Questions

Question: 88

Internet Key Exchange (IKE) is responsible for which two functions? (Choose two.)

- A. Establishing network speed parameters
- B. Verifying the client's patch level
- C. Negotiating algorithms to use
- D. Exchanging key information

Answer: A, B

Question: 89

HOTSPOT

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

Answer Area

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

Answer:

Answer Area

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

Question: 90

HOTSPOT

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.

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.

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: 91

HOTSPOT

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

Answer Area

Yes No

IPsec can be used to secure network communications between two machines.

☐☐

IPsec can be used to secure network communication between two networks.

☐☐

IPsec network traffic is always encrypted.

☐☐

Answer:

Answer Area

Yes No

IPsec can be used to secure network communications between two machines.

☒☐

IPsec can be used to secure network communication between two networks.

☒☐

IPsec network traffic is always encrypted.

☐☒

Question: 92

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

The process of replicating a zone file to multiple DNS servers is called zone replication,

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. Zone transfer
- B. Zone synchronization
- C. Start of authority
- D. No change is needed

Answer: A

Question: 93

DRAG DROP

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.

IP Addresses	Answer Area
133.234.23.2	Class A <input type="text" value="IP Address"/>
224.100.20.3	Class B <input type="text" value="IP Address"/>
201.111.22.3	Class C <input type="text" value="IP Address"/>
64.123.12.1	Class D <input type="text" value="IP Address"/>

Answer:

Class A	<input type="text" value="64.123.12.1"/>
Class B	<input type="text" value="133.234.23.2"/>
Class C	<input type="text" value="201.111.22.3"/>
Class D	<input type="text" value="224.100.20.3"/>

Question: 94

Which DNS record type specifies the host that is the authority for a given domain?

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

Answer: B

Question: 95

DRAG DROP

Match each protocol to its description.

To answer, drag the appropriate protocol from the column on the left to its description on the right. Each protocol may be used once, more than once, or not at all. Each correct match is worth one point.

Protocols	Answer Area
TCP	connectionless, message-based protocol with best-effort service
ICMP	connection-oriented protocol with guaranteed service
ARP	resolves IP addresses to MAC addresses
UDP	
IGMP	

Answer:

connectionless, message-based protocol with best-effort service

UDP

connection-oriented protocol with guaranteed service

TCP

resolves IP addresses to MAC addresses

ARP

Question: 96

HOTSPOT

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

Answer Area

	Yes	No
The TCP/IP model has four layers, which correspond with the OSI model's seven layers.	<input type="radio"/>	<input type="radio"/>
The TCP/IP application layer corresponds with the top four layers of the OSI model.	<input type="radio"/>	<input type="radio"/>
The TCP/IP transport and Internet layers correspond with layers 3 and 4 of the OSI model.	<input type="radio"/>	<input type="radio"/>

Answer:**Answer Area**

	Yes	No
The TCP/IP model has four layers, which correspond with the OSI model's seven layers.	<input checked="" type="radio"/>	<input type="radio"/>
The TCP/IP application layer corresponds with the top four layers of the OSI model.	<input type="radio"/>	<input checked="" type="radio"/>
The TCP/IP transport and Internet layers correspond with layers 3 and 4 of the OSI model.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 97

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

All session data is encrypted between all machines while using telnet.

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. Not encrypted
- B. Encrypted between any Windows machines
- C. Encrypted only to any non-Windows machines
- D. No change is needed

Answer: A**Question: 98**

Which protocol is a transport layer protocol?

- A. FTP
- B. IP
- C. UDP
- D. ASCII

Answer: D

Question: 99

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

IPv4 multicast addresses range from 192.168.0.0 to 192.168.255.255.

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. 127.0.0.0 to 127.255.255.255
- B. 172.16.0.0 to 172.31.255.255
- C. 224.0.0.0 to 239.255.255.255
- D. No change is needed

Answer: C

Question: 100

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

The four IEEE standards, 802.11a, b, g, and n, are collectively known as mobile ad hoc networks.

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. WiMAX
- B. Bluetooth
- C. WiFi
- D. No change is needed

Answer: C

Question: 101

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

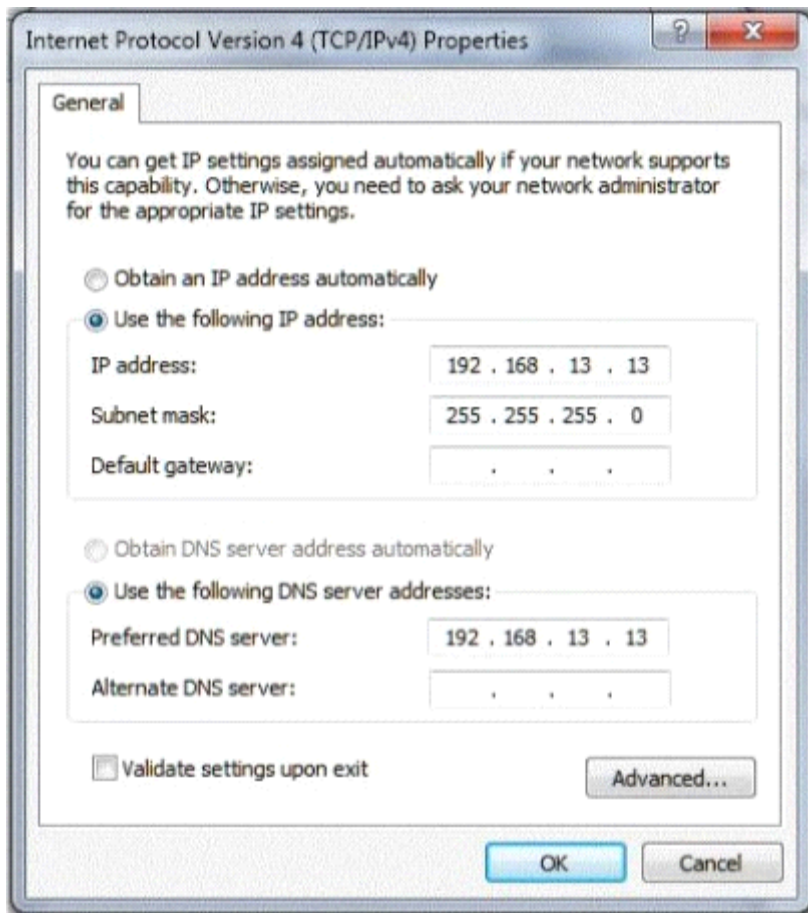
Answer: A

Question: 102

HOTSPOT

You cannot get to any site on the Internet or on the school's intranet. Your school uses DHCP.

You check your network settings, which are configured as shown in the following image:



You need to change the settings to access websites.

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

Answer Area

Changing the IP address settings to **[answer choice]** will allow Internet access.

▼

- have a default gateway address of 192.168.1.1
- have a default gateway address of 192.168.13.13
- obtain an IP address automatically

Setting the DNS server settings to **[answer choice]** will allow the user's computer to look up website addresses.

▼

- obtain DNS server address automatically
- set Preferred DNS server to Nothing
- set Alternate DNS server to 192.168.13.13

Answer:

Answer Area

Changing the IP address settings to **[answer choice]** will allow Internet access.

▼

- have a default gateway address of 192.168.1.1
- have a default gateway address of 192.168.13.13
- obtain an IP address automatically

Setting the DNS server settings to **[answer choice]** will allow the user's computer to look up website addresses.

▼

- obtain DNS server address automatically
- set Preferred DNS server to Nothing
- set Alternate DNS server to 192.168.13.13

Question: 103

DRAG DROP

Match each network type to its corresponding definition.

To answer, drag the appropriate network type from the column on the left to its definition on the right. Each network

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

Network Types	Answer Area
Extranet	a network that allows controlled access for specific business or educational purposes
Internet	a network that allows access only to users within an organization
Intranet	a system of interconnected networks

Answer:

a network that allows controlled access for specific business or educational purposes

Extranet

a network that allows access only to users within an organization

Intranet

a system of interconnected networks

Internet

Question: 104

DRAG DROP

Match the VPN connection type to the corresponding definition.

To answer, drag the appropriate VPN term from the column on the left to its definition on the right. Each term may be used once, more than once, or not at all. Each correct match is worth one point.

Terms	Answer Area
Point-to-Point Protocol	allows a remote user to connect to a private network from anywhere on the Internet
SSL VPN	securely connects two portions of a private network or two private networks
Layer 2 Tunneling Protocol	creates an unencrypted connection between two network devices
Site-to-Site VPN	

Answer:

allows a remote user to connect to a private network from anywhere on the Internet

SSL VPN

securely connects two portions of a private network or two private networks

Site-to-Site VPN

creates an unencrypted connection between two network devices

Layer 2 Tunneling Protocol

Question: 105

DRAG DROP

Match each set of characteristics to the corresponding 802.11 standard.

To answer, drag the appropriate set of characteristics from the column on the left to its 802.11 standard on the right.

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

Sets	Answer Area
Frequency range: 2.4-2.485 Ghz Data rate: 11 Mbps	802.11a Set
Frequency range: 2.4-2.485 Ghz Data rate: 54 Mbps	802.11b Set
Frequency range: 2.4-2.485 Ghz or 5.1-5.8 Ghz Data rate: 65-600 Mbps	802.11g Set
Frequency range: 5.1-5.8 Ghz Data rate: 54 Mbps	802.11n Set

Answer:

802.11a	Frequency range: 5.1-5.8 Ghz Data rate: 54 Mbps
802.11b	Frequency range: 2.4-2.485 Ghz Data rate: 11 Mbps
802.11g	Frequency range: 2.4-2.485 Ghz Data rate: 54 Mbps
802.11n	Frequency range: 2.4-2.485 Ghz or 5.1-5.8 Ghz Data rate: 65-600 Mbps

Question: 106

You work at a coffee shop. Your supervisor asks you to help set up a computer network.

The network needs to have the following items:

A public facing web server

A Wi-Fi network for customers

A private network for the point of sale terminals

An office PC

A file/print server

A network printer

You need to set up a perimeter network to protect the network.

Which two items should you include in the perimeter network? (Choose two.)

A. Network printer

B. Web server

C. File server

D. Wi-Fi network

E. Point of sale terminals

Answer: A, B

Question: 107

DRAG DROP

Match the networking topologies to their corresponding characteristics.

To answer, drag the appropriate topology from the column on the left to its characteristic on the right. Each topology may be used once, more than once, or not at all. Each correct match is worth one point.

Topologies

Star

Mesh

Ring

Answer Area

Each computer is connected by a single cable.

Each workstation acts as a repeater.

Each computer is connected to every other computer.

There is a central connectivity device.

The number of connections equals the total number of computers minus one.

Each node is connected to exactly two other nodes.

Topology

Topology

Topology

Topology

Topology

Topology

Answer:

Each computer is connected by a single cable.

Star

Each workstation acts as a repeater.

Ring

Each computer is connected to every other computer.

Mesh

There is a central connectivity device.

Star

The number of connections equals the total number of computers minus one.

Mesh

Each node is connected to exactly two other nodes.

Ring

Question: 108

Which two features of a Windows Server 2008 R2 server should you install to use that server as a software router? (Choose two.)

- A. Network Policy and Access Services
- B. Routing and Remote Access Services
- C. Remote Administration
- D. DirectAccess

Answer: A, B

Question: 109

What are two characteristics of fiber optic cable? (Choose two.)

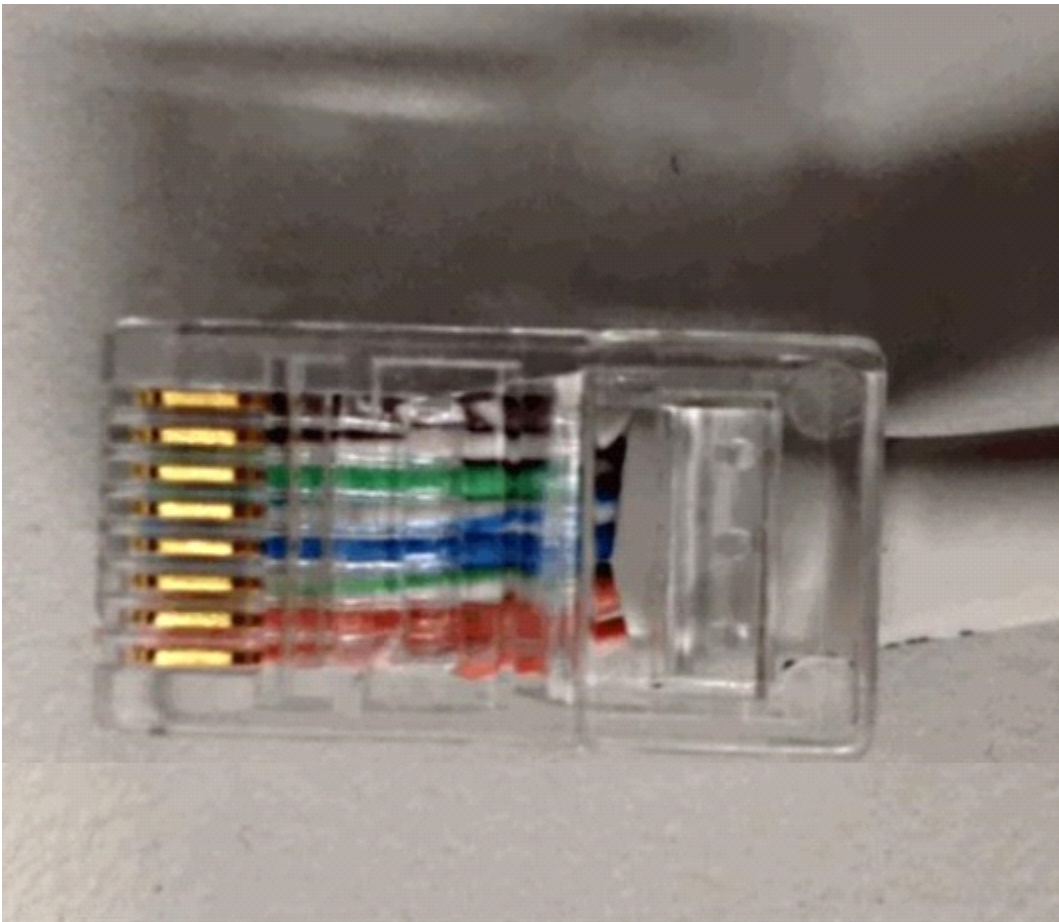
- A. Conducts electricity
- B. Requires metal conduit
- C. Supports splicing
- D. Requires a polish for end connectors

Answer: A, C

Question: 110

HOTSPOT

Identify the network cable type and connector in the following graphic:



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

Answer Area

Connector type

Cable type

Answer:**Answer Area**

Connector type

Cable type

Question: 111

Which Microsoft network service can you use to establish a connection to a corporate LAN without any user action?

- A. VPN
- B. Remote Desktop
- C. DirectAccess
- D. Nap

Answer: A**Question: 112****HOTSPOT**

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

Answer Area

	Yes	No
With a recursive DNS query, the DNS server will contact any other DNS servers it knows about to resolve the request.	<input type="radio"/>	<input type="radio"/>
When an iterative query cannot be resolved from local data, such as local zone files or a cache of previous queries, the query needs to be escalated to a root DNS server.	<input type="radio"/>	<input type="radio"/>
A DNS server makes an iterative query as it tries to find names outside of its local domain when it is not configured with a forwarder.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

	Yes	No
With a recursive DNS query, the DNS server will contact any other DNS servers it knows about to resolve the request.	<input checked="" type="radio"/>	<input type="radio"/>
When an iterative query cannot be resolved from local data, such as local zone files or a cache of previous queries, the query needs to be escalated to a root DNS server.	<input type="radio"/>	<input checked="" type="radio"/>
A DNS server makes an iterative query as it tries to find names outside of its local domain when it is not configured with a forwarder.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 113**DRAG DROP**

Match the IPv4 address type to the corresponding definition.

To answer, drag the appropriate definition from the column on the left to the address type on the right. Each definition may be used once, more than once, or not at all. Each correct match is worth one point.

Definitions	Answer Area
assigned to a single network interface located on a specific subnet on the network and used for one-to-one communications	Multicast Definition
assigned to the variable portion of an IPv4 address that is used to identify a network node's interface on a subnet	Broadcast Definition
assigned to one or more network interfaces located on various subnets on the network and used for one-to-many communications	Unicast Definition
assigned to all network interface located on a subnet on the network and used for one-to-everyone-on-a-subnet communications	

Answer:

Multicast	assigned to one or more network interfaces located on various subnets on the network and used for one-to-many communications
Broadcast	assigned to all network interface located on a subnet on the network and used for one-to-everyone-on-a-subnet communications
Unicast	assigned to a single network interface located on a specific subnet on the network and used for one-to-one communications

Question: 114

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

A secondary zone is the first DNS zone to which all updates for the records that belong to that zone are written.

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. Primary zone
- B. Stub zone
- C. Conditional forwarding zone
- D. No change is needed.

Answer: A

Question: 115

HOTSPOT

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

Answer Area

	Yes	No
The tracert command displays router addresses that are traversed between a source and a destination.	<input type="radio"/>	<input type="radio"/>
The tracert command determines packet loss between a source and a destination.	<input type="radio"/>	<input type="radio"/>
The tracert command can display a list of routers being used for all active connections.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

	Yes	No
The tracert command displays router addresses that are traversed between a source and a destination.	<input checked="" type="radio"/>	<input type="radio"/>
The tracert command determines packet loss between a source and a destination.	<input type="radio"/>	<input checked="" type="radio"/>
The tracert command can display a list of routers being used for all active connections.	<input type="radio"/>	<input checked="" type="radio"/>

Question: 116

You are setting up a network computer game.
 You need to open up ports on your firewall so your friends can join the network.
 Which command displays the ports that your computer is listening for?

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

Answer: A

Question: 117

DRAG DROP

Match the TCP ports to the corresponding service.

To answer, drag the appropriate port number from the column on the left to its service on the right. Each port number may be used once, more than once, or not at all. Each correct match is worth one point.

Ports	Answer Area
80	SMTP <input type="text" value="Port"/>
53	FTP <input type="text" value="Port"/>
25	HTTPS <input type="text" value="Port"/>
21	
443	

Answer:

SMTP	<input type="text" value="25"/>
FTP	<input type="text" value="21"/>
HTTPS	<input type="text" value="443"/>

Question: 118

HOTSPOT

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

Answer Area

	Yes	No
0:0:0:0:0:0:1 is the Loopback address for IPv6.	<input type="radio"/>	<input type="radio"/>
FEC0::9C5A is a valid Site-Local IPv6 address.	<input type="radio"/>	<input type="radio"/>
FE80::F856:02AA is a valid Link-Local (APIPA) IPv6 address.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

	Yes	No
0:0:0:0:0:1 is the Loopback address for IPv6.	<input checked="" type="radio"/>	<input type="radio"/>
FEC0::9C5A is a valid Site-Local IPv6 address.	<input checked="" type="radio"/>	<input type="radio"/>
FE80::F856:02AA is a valid Link-Local (APIPA) IPv6 address.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 119

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

When a client computer is unable to reach a DHCP server, it will automatically assign an IP address in the 10.0.0.0 - 10.0.0.255 range.

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. 127.0.0.0-127.0.0.255
- B. 169.254.0.0-169.254.255.255
- C. 192.168.100.0 -192.168.100.255
- D. No change is needed

Answer: B

Question: 120

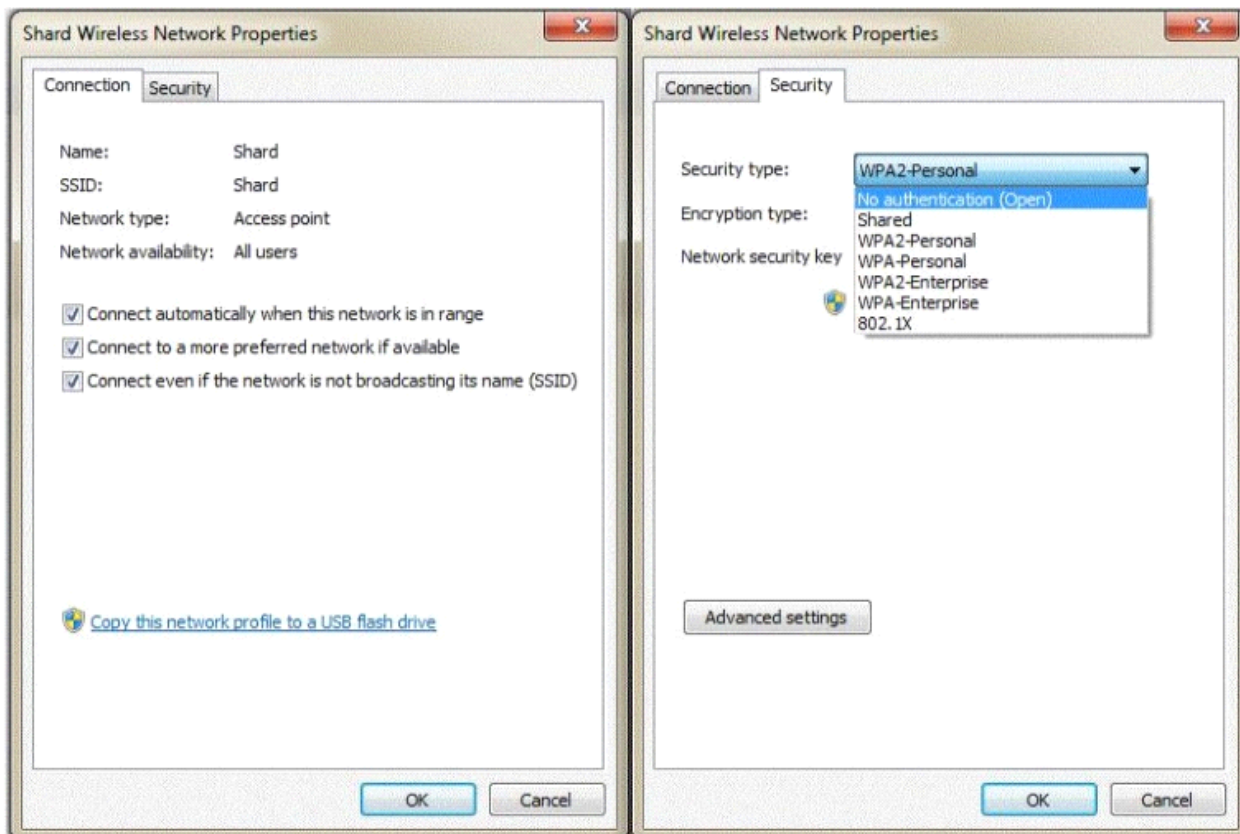
A node within a local area network (LAN) must have which two of the following? (Choose two.)

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

Answer: B, E

Question: 121**HOTSPOT**

You are configuring a wireless network with the Wireless Network Properties that are shown in the following image:



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

Answer Area

To manually select which network to connect to, you should uncheck **[answer choice]**

▼

Connect automatically when this network is in range.
Connect to a more preferred network if available.
Connect even if the network is not broadcasting its name (SSID).

The **[answer choice]** security type requires certificates for its encryption.

▼

WPA-Enterprise
WPA2-Personal
802.1X

Answer:

Answer Area

To manually select which network to connect to, you should uncheck **[answer choice]**

▼

Connect automatically when this network is in range.
Connect to a more preferred network if available.
Connect even if the network is not broadcasting its name (SSID).

The **[answer choice]** security type requires certificates for its encryption.

▼

WPA-Enterprise
WPA2-Personal
802.1X

Question: 122

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

A/an virtual private network (VPN) protects a network's perimeter by monitoring traffic as it enters and leaves.

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. Extranet
- B. Firewall
- C. Intranet
- D. No change is needed

Answer: B

Question: 123

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

The loopback address of your computer is 127.0.0.1.

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. 10.0.1.1
- B. 169.254.0.5
- C. 192.168.1.1
- D. No change is needed

Answer: D

Question: 124

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

Answer: A

Question: 125

Which IEEE 802.11 Wi-Fi networking standard requires dual antennas so it can run in all of its supported frequencies?

- A. 802.11a
- B.802.11b
- C.802.11g
- D.802.11n

Answer: D

Question: 126

What is the bit rate for a North American T3 circuit?

- A. 6.312 Mbit/s
- B.44.736 Mbit/s
- C.274.176 Mbit/s
- D.400.352 Mbit/s

Answer: B

Question: 127

HOTSPOT

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

Answer Area

	Yes	No
Dynamic Routing provides the ability to add networks automatically by learning them from other RIP routers.	<input type="radio"/>	<input type="radio"/>
Dynamic Routing provides the ability to automatically remove routes from the routing table when other RIP neighbors delete them.	<input type="radio"/>	<input type="radio"/>
Dynamic Routing provides the ability to select the best route based on routing metrics.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

	Yes	No
Dynamic Routing provides the ability to add networks automatically by learning them from other RIP routers.	<input checked="" type="radio"/>	<input type="radio"/>
Dynamic Routing provides the ability to automatically remove routes from the routing table when other RIP neighbors delete them.	<input checked="" type="radio"/>	<input type="radio"/>
Dynamic Routing provides the ability to select the best route based on routing metrics.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 128

Which feature of Category 5e STP cable reduces external interference?

- A. Crosstalk
- B. Shielding
- C. Length
- D. Twisting

Answer: C

Question: 129

What are three advantages of VLANs? (Choose three.)

- A. They can logically address packets by using IP.
- B. They require a router to connect to VLANs on another switch.
- C. They compartmentalize a network and isolate traffic.
- D. They are efficient because a single switch can implement only a single VLAN.
- E. They act as though they are on the same LAN regardless of physical location.

Answer: C, D, E

Question: 130

DRAG DROP

Match the OSI layer to its corresponding description.

To answer, drag the appropriate OSI layer from the column on the left to its description on the right. Each OSI layer may be used once, more than once, or not at all. Each correct match is worth one point.

OSI Layers	Answer Area	
Data Link	It provides network services directly to the user's application. TELNET, SMTP, and NTP operate on this layer.	OSI Layer
Network	It controls dialogue between source and destination nodes. RPC and NETBIOS operate on this layer.	OSI Layer
Session	It relies on upper layers for reliable delivery and sequencing. IPX, X.25, and NLSP operate on this layer.	OSI Layer
Application	It ensures that reassembled bits are in the correct order, and it requests retransmission of frames if an error occurs. Switches and WAPs operate on this layer.	OSI Layer
	It is responsible for path determination and delivery of packets, but does not guarantee delivery. ICMP, RIP, and ARP operate on this layer.	OSI Layer
	It checks for errors by adding CRC to the frame. Bridges and NICs operate on this layer.	OSI Layer

Answer:

It provides network services directly to the user's application. TELNET, SMTP, and NTP operate on this layer.

Application

It controls dialogue between source and destination nodes. RPC and NETBIOS operate on this layer.

Session

It relies on upper layers for reliable delivery and sequencing. IPX, X.25, and NLSP operate on this layer.

Network

It ensures that reassembled bits are in the correct order, and it requests retransmission of frames if an error occurs. Switches and WAPs operate on this layer.

Data Link

It is responsible for path determination and delivery of packets, but does not guarantee delivery. ICMP, RIP, and ARP operate on this layer.

Network

It checks for errors by adding CRC to the frame. Bridges and NICs operate on this layer.

Data Link

Question: 131

HOTSPOT

You receive a call from a family member who is unable to connect to a game server.

You learn that the server's IP is 172.16.2.11.

To help, you ping the server and receive the information shown in the following image:

```

C:\>ping 172.16.2.11

Pinging 172.16.2.11 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.16.2.11:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>

```

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

Answer Area

The server [answer choice] your ping requests.

 did not return
 did return
 may or may not have returned

The server status is [answer choice]

 up.
 down.
 unknown.

Answer:

Answer Area

The server [answer choice] your ping requests.

 did not return
 did return
 may or may not have returned

The server status is [answer choice]

 up.
 down.
 unknown.

Question: 132

DRAG DROP

Match each address type to its appropriate range.

To answer, drag the appropriate address type from the column on the left to its range on the right. Each address type may be used once, more than once, or not at all. Each correct match is worth one point.

Address Types	Answer Area
Loopback addresses	127.0.0.0 – 127.255.255.255 Address Type
Multicast addresses	192.168.0.0 – 192.168.255.255 Address Type
Private network addresses	224.0.0.0 – 239.255.255.255 Address Type

Answer:

127.0.0.0 – 127.255.255.255	Loopback addresses
192.168.0.0 – 192.168.255.255	Private network addresses
224.0.0.0 – 239.255.255.255	Multicast addresses

Question: 133

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

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

Answer: A, B

Question: 134

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

Every router today is TCP/IP enabled, which is an industry-standard protocol that you use on the Internet and for local addressing.

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. HTTP
- B. FTP
- C. SNMP

D.No change is needed

Answer: D

Question: 135

You are home for vacation, and a family member wants your help to purchase and install network cable for a home office.

The cable needs to support at least 300 Mbps.

What is the least expensive option that meets this requirement?

- A. Cat3
- B.CAT5
- C.Cat5e
- D.Cat6

Answer: C

Question: 136

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

WEP wireless encryption is the most susceptible to interception and decryption.

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. WPA-AES
- B.WPA2
- C.WPA-PSK
- D.No change is needed

Answer: D

Question: 137

HOTSPOT

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

Answer Area

	Yes	No
A switch sends unicast packets to one destination port only.	<input type="radio"/>	<input type="radio"/>
A switch floods ports if it does not know where to send a packet.	<input type="radio"/>	<input type="radio"/>
A switch sends broadcast packets to the uplink port only.	<input type="radio"/>	<input type="radio"/>

Answer:**Answer Area**

	Yes	No
A switch sends unicast packets to one destination port only.	<input checked="" type="radio"/>	<input type="radio"/>
A switch floods ports if it does not know where to send a packet.	<input checked="" type="radio"/>	<input type="radio"/>
A switch sends broadcast packets to the uplink port only.	<input type="radio"/>	<input checked="" type="radio"/>

Question: 138

What is an example of a network device that associates a network address with a port?

- A. Switch
- B. Router
- C. Hub
- D. DSL modem

Answer: C**Question: 139**

Which wireless communication problem is caused by electromagnetic waves?

- A. Fading
- B. Attenuation
- C. Interference
- D. Diffraction

Answer: C**Question: 140**

An Action Center alert recommends that you enable Windows Firewall.
After enabling the firewall, you can no longer access websites.
Which two TCP ports should you add exceptions for on the firewall? (Choose two.)

- A. Port 21
- B. Port 23
- C. Port 25
- D. Port 80
- E. Port 443

Answer: D, E

Question: 141

What are two advantages of using star topology rather than ring topology in a computer lab workgroup? (Choose two.)

- A. Failure of a central connectivity device does not bring down the entire network.
- B. A central connection point allows for flexibility and scalability.
- C. Data travels on redundant paths, so one cable cannot stop its transmission.
- D. A cable problem within the group affects two nodes, at most.

Answer: B, D

Question: 142

What are three characteristics of Ethernet network topology? (Choose three.)

- A. It uses tokens to avoid collisions on the network.
- B. It can use coaxial, twisted pair, and fiber optic media.
- C. It comprises the largest share of the networks in place today.
- D. It is a non-switching protocol.
- E. It can negotiate different transmission speeds.

Answer: A, B, D

Question: 143

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

Answer: A

Question: 144

HOTSPOT

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

Answer Area

	Yes	No
You use a perimeter network to grant internal clients access to external resources.	<input type="radio"/>	<input type="radio"/>
A LAN has no access to the perimeter network.	<input type="radio"/>	<input type="radio"/>
A perimeter network typically contains servers that require Internet access, such as web or email servers.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

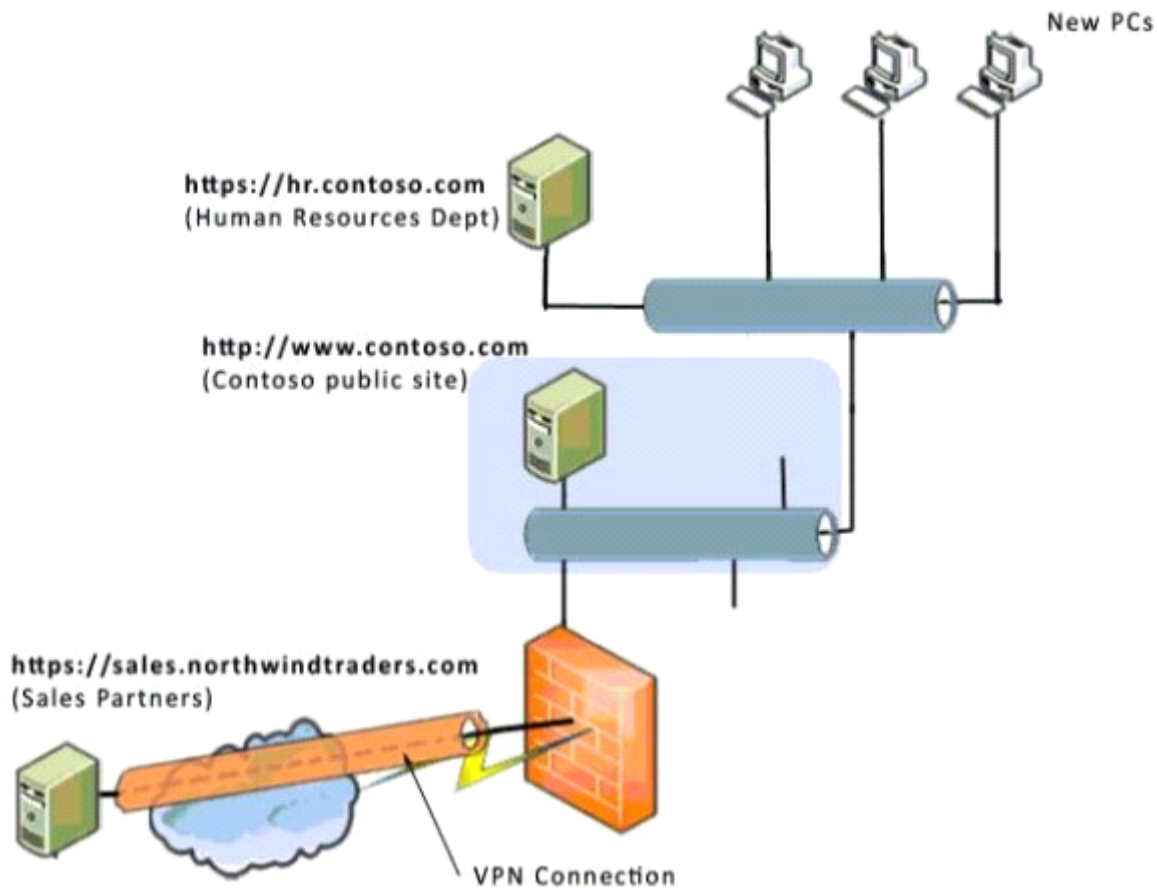
	Yes	No
You use a perimeter network to grant internal clients access to external resources.	<input type="radio"/>	<input checked="" type="radio"/>
A LAN has no access to the perimeter network.	<input type="radio"/>	<input checked="" type="radio"/>
A perimeter network typically contains servers that require Internet access, such as web or email servers.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 145

HOTSPOT

You are an intern for Contoso Ltd. Your supervisor asks you to configure the security zones for three new PCs so that they are able to connect to two web servers.

The servers connect to the three new PCs as shown in the following image:



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

Answer Area

The appropriate type of security zone for https://sales.northwindtraders.com is [answer choice]

Restricted Sites.
Local Intranet.
Trusted Sites.

The appropriate type of security zone for https://hr.contoso.com is [answer choice]

Restricted Sites.
Local Intranet.
Trusted Sites.

Answer:

Answer Area

The appropriate type of security zone for https://sales.northwindtraders.com is [answer choice]

Restricted Sites.
Local Intranet.
Trusted Sites.

The appropriate type of security zone for https://hr.contoso.com is [answer choice]

Restricted Sites.
Local Intranet.
Trusted Sites.

Question: 147

Your home computer is having problems accessing the Internet.

You suspect that your Internet router's DHCP service is not functioning, so you check your computer's IP address. Which address indicates that your router's DHCP service is NOT functioning?

- A. 169.254.1.15
- B. 172.16.1.15
- C. 192.168.1.15
- D. 10.19.1.15

Answer: B

Question: 147

Which of these is a public address space?

- A. 192.168.0.0/16
- B. 197.16.0.0/12
- C. 10.0.0.0/8
- D. 172.16.0.0/12

Answer: D

Question: 148

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

In a wireless network that requires an SSL certificate, WEP handles the SSL certificate.

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. 802.1X
- B. WPA2-PSK
- C. WPA-PSK
- D. No change is needed

Answer: A

Question: 149

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

To set lower security settings in Internet Explorer for an extranet site, add the site's URL to the Local Intranet zone.

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. Internet
- B. Trusted Sites
- C. Extranet Sites
- D. No change is needed

Answer: B

Question: 150

You are helping a friend set up a public-facing web server for a home office. Your friend wants to protect the internal network from intrusion. What should you do?

- A. Set the web server in a perimeter network.
- B. Set the web server to block access on ports 80 and 443.
- C. Configure the firewall to block access on ports 80 and 443.
- D. Set the IP address of the web server to be within the LAN.

Answer: A**Question: 151**

HOTSPOT

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

Answer Area

	Yes	No
A wireless bridge connects Ethernet-based devices to the network.	<input type="radio"/>	<input type="radio"/>
A wireless bridge increases the wireless signal strength of the access point.	<input type="radio"/>	<input type="radio"/>
Wireless bridges always work in pairs.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

	Yes	No
A wireless bridge connects Ethernet-based devices to the network.	<input checked="" type="radio"/>	<input type="radio"/>
A wireless bridge increases the wireless signal strength of the access point.	<input type="radio"/>	<input checked="" type="radio"/>
Wireless bridges always work in pairs.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 152

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.

Answer: B, C

Question: 153

What are two characteristics of a mesh network topology? (Choose two.)

- A. It is fault tolerant because of redundant connections.
- B. Every node connects to every other node on the network.
- C. It works best for networks with a large number of nodes.
- D. It requires less cabling than either a star or ring topology.

Answer: A, C

Question: 154

Which protocol is responsible for automatically assigning IP addresses?

- A. HTTP
- B. DHCP
- C. DNS
- D. WINS

Answer: A

Question: 155

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

According to the OSI model, encryption takes place on the transport layer.

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. Presentation
- B. Network
- C. Application
- D. No change is needed

Answer: A

Question: 156

HOTSPOT

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

Answer Area

	Yes	No
An IPv4 address consists of 64 bits.	<input type="radio"/>	<input type="radio"/>
It is standard practice to divide the binary bits of an IPv4 address into 8-bit fields named octets.	<input type="radio"/>	<input type="radio"/>
The value of any IPv4 octet can be from 0 to 256.	<input type="radio"/>	<input type="radio"/>

Answer:**Answer Area**

	Yes	No
An IPv4 address consists of 64 bits.	<input type="radio"/>	<input checked="" type="radio"/>
It is standard practice to divide the binary bits of an IPv4 address into 8-bit fields named octets.	<input checked="" type="radio"/>	<input type="radio"/>
The value of any IPv4 octet can be from 0 to 256.	<input type="radio"/>	<input checked="" type="radio"/>

Question: 157

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

IPSec policies for two machines on a LAN can be modified by using the IPSec policy snap-in on Windows 7.

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. Windows Firewall with Advanced Security snap-in
- B. LAN adapter properties
- C. Remote Access snap-in
- D. No change is needed

Answer: A**Question: 158**

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

Answer: A

Question: 159

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

Answer: A

Question: 160

What is the maximum cable length for a single Cat5 UTP cable run?

- A. 285 feet/86.87 meters
- B.328 feet/99.97 meters
- C.432 feet/131.67 meters
- D.600 feet/182.88 meters

Answer: B

Question: 161

HOTSPOT

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

Answer Area

	Yes	No
--	-----	----

Quality of Service (QoS) allows you to define the priority traffic on the network.	<input type="radio"/>	<input type="radio"/>
--	-----------------------	-----------------------

Quality of Service (QoS) allows you to control bandwidth.	<input type="radio"/>	<input type="radio"/>
---	-----------------------	-----------------------

Quality of Service (QoS) allows you to assign protocols dynamically.	<input type="radio"/>	<input type="radio"/>
--	-----------------------	-----------------------

Answer:

Answer Area

	Yes	No
Quality of Service (QoS) allows you to define the priority traffic on the network.	<input checked="" type="radio"/>	<input type="radio"/>
Quality of Service (QoS) allows you to control bandwidth.	<input checked="" type="radio"/>	<input type="radio"/>
Quality of Service (QoS) allows you to assign protocols dynamically.	<input type="radio"/>	<input checked="" type="radio"/>

Question: 162

Which of these cable types transmits data the greatest distance?

- A. Multi-mode fiber
- B. Single-mode fiber
- C. Cat5e
- D. Cat6

Answer: B

Question: 163

What is a similarity between Layer 2 and Layer 3 switches?

- A. Both provide a high level of security to the network.
- B. Both use logical addressing to forward transmissions.
- C. Both forward packets onto the network.
- D. Both allow the implementation of VLANs.

Answer: C

Question: 164

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

Dynamic routing is fault tolerant.

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. Static routing
- B. Default route
- C. Least cost routing
- D. No change is needed

Answer: D

Question: 165

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

Answer: A

Question: 166

What is an example of a Layer 3 device that connects multiple computers and networks?

- A. Packet
- B.Repeater
- C.Switch
- D.Router

Answer: A

Question: 167

Which metric does Routing Information Protocol (RIP) use to determine the least costly route?

- A. Delay
- B.Host ID
- C.Hop count
- D.Interface

Answer: A

Question: 168

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.

Answer: B, C

Question: 168

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

- A. MX

B.CNAME
C.NS
D.SOA

Answer: C

Question: 170

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

Each IPv4 address consists of a MAC address and data-link layer address.

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. Network ID and a host ID
- B.DNS record and a default route
- C.64-bit binary number divided into octets
- D.No change is needed

Answer: A

Question: 171

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

The NTP value in a resource record indicates a length of time that other DNS servers use to determine how long to cache information for a record before expiring and discarding it.

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. TTL
- B.GPS
- C.SOA RR
- D.No change is needed

Answer: A

Question: 172

HOTSPOT

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

Answer Area

	Yes	No
HTTP, TELNET, FTP, and SMTP protocols operate on Layer 7 of the OSI model.	<input type="radio"/>	<input type="radio"/>
Layer 4 of the OSI model controls dialogue between computers.	<input type="radio"/>	<input type="radio"/>
Layer 3 of the OSI model controls routing between network devices.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

	Yes	No
HTTP, TELNET, FTP, and SMTP protocols operate on Layer 7 of the OSI model.	<input checked="" type="radio"/>	<input type="radio"/>
Layer 4 of the OSI model controls dialogue between computers.	<input type="radio"/>	<input checked="" type="radio"/>
Layer 3 of the OSI model controls routing between network devices.	<input checked="" type="radio"/>	<input type="radio"/>

Question: 173**HOTSPOT**

You are studying for finals in the student lounge. When your laptop is connected to the wireless network, access to the Internet is slow. When you plug your laptop into a wall jack, you can no longer access the Internet at all. You run the ipconfig /all command. The results are shown in the following image:

```
C:\>ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : Win7Pro
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : domain.local
```

Wireless LAN adapter Wireless Network Connection:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) WiFi Link 5300 AGN
Physical Address. . . . . : 00-21-6A-1F-AA-DA
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv4 Address. . . . . : 192.168.11.48(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Friday, May 17, 2013 9:31:02 PM
Lease Expires . . . . . : Saturday, May 18, 2013 9:31:01 PM
Default Gateway . . . . . : 192.168.11.1
DHCP Server . . . . . : 192.168.11.1
DNS Servers . . . . . : 192.168.11.1
NetBIOS over Tcpip. . . . . : Enabled
```

Ethernet adapter Local Area Connection:

```
Connection-specific DNS Suffix . : domain.local
Description . . . . . : Intel(R) 82567LM Gigabit Network Connection
Physical Address. . . . . : 00-24-81-B3-D4-64
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Autoconfiguration IPv4 Address. . : 169.254.143.166(Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Enabled
```

Tunnel adapter isatap.domain.local:

```
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : domain.local
Description . . . . . : Microsoft ISATAP Adapter
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
```

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

Answer Area

The wireless adapter has an IP address configured **[answer choice]**

manually.
through DHCP.
through APIPA.

The Ethernet adapter has an IP address configured **[answer choice]**

manually.
through DHCP.
through APIPA.

Answer:

Answer Area

The wireless adapter has an IP address configured [answer choice]

 manually.
 through DHCP.
 through APIPA.

The Ethernet adapter has an IP address configured [answer choice]

 manually.
 through DHCP.
 through APIPA.
Question: 174**HOTSPOT**

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

Answer Area

	Yes	No
IPv6 addresses are 64-bit in length.	<input type="radio"/>	<input type="radio"/>
IPv6 addresses are divided into 8-bit blocks.	<input type="radio"/>	<input type="radio"/>
IPv6 addresses are represented by dotted-decimal notation.	<input type="radio"/>	<input type="radio"/>

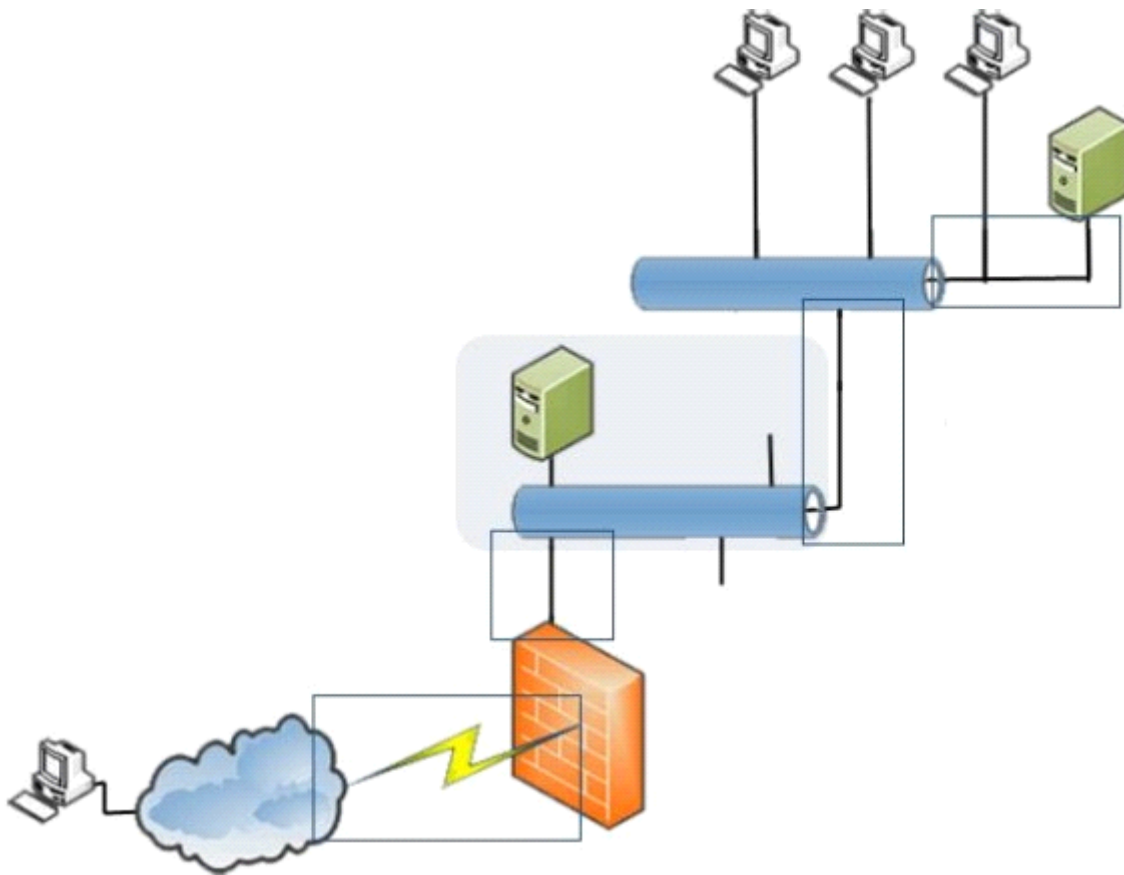
Answer:

Answer Area

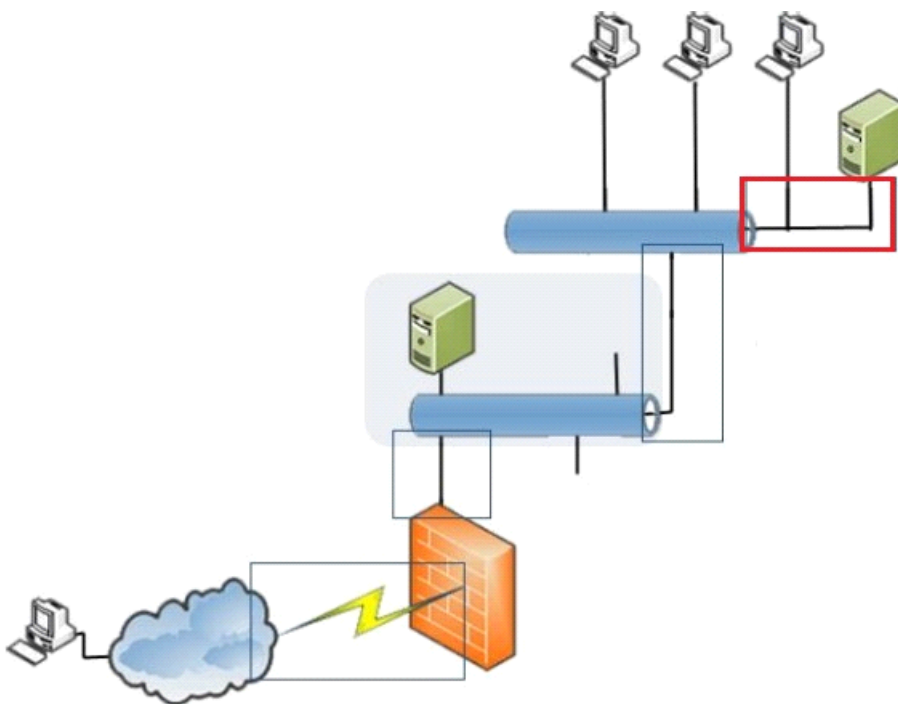
	Yes	No
IPv6 addresses are 64-bit in length.	<input type="radio"/>	<input checked="" type="radio"/>
IPv6 addresses are divided into 8-bit blocks.	<input type="radio"/>	<input checked="" type="radio"/>
IPv6 addresses are represented by dotted-decimal notation.	<input type="radio"/>	<input checked="" type="radio"/>

Question: 175**HOTSPOT**

Where in the diagram is a T3 connection possible? (To answer, select the appropriate connection in the diagram in the answer area.)



Answer:



Question: 176

What happens when an 802.11a node broadcasts within the range of an 802.11g access point?

A. The access point transmits, but the node is unable to receive.

- B.A connection occurs.
- C.Both the node and the access point are unable to transmit.
- D.The node transmits, but the access point is unable to receive.

Answer: C
