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Exam code: 98-366

Exam name: Networking Fundamentals

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QUESTION 1
One <mark>advantage</mark> of <mark>dynamic routing</mark> is that it:

A. <mark>Automatically maintains routing tables.</mark>
B. Limits traffic derived from routing protocols.
C. Reduces broadcast traffic.
D. Automatically enables DHCP.

QUESTION 2
Which of the following <mark>represents</mark> a <mark>Media Access Control (MAC)</mark> address?

A. GV:ZC:KK:DK:FZ:CA
B. 255.255.255.0
C. <mark>05:35:AB:6E:AI:25</mark>
D. 127.0.0.1

QUESTION 3
<mark>Connecting</mark> to a <mark>private network</mark> address <mark>from</mark> a <mark>public network</mark> requires:

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

QUESTION 4
A <mark>network</mark> device that <mark>associates</mark> a <mark>Media Access Control (MAC)</mark> address with a port is a:

A. DSL modem
B. Hub
C. Router
D. <mark>Switch</mark>

QUESTION 5
A Layer 2 device that connects multiple computers within a network is a:

A. Repeater
B. <mark>Switch</mark> ✓
C. Router
D. Packet

QUESTION 6
A cable that meets the l000BaseT standard has a maximum length of:

A. <mark>100 m</mark>
B. 250 m
C. 500 m
D. 1,000 m

QUESTION 7
A router's static route is set by the:

A. Adjacent network
B. Next upstream router
C. <mark>Network administrator</mark>
D. Routing protocol

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

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

QUESTION 10
The default port used for SMTP is:

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

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.

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

QUESTION 13
The command-line tool used to list a host's active incoming connections is:

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

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

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

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

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).

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

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.

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

QUESTION 21
The default port used for telnet is:

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

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.

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.

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).

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

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.

QUESTION 27
If an 802.llg 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)

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

QUESTION 29
Which of the following uses a tunneling protocol?

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

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

QUESTION 31
Which type of network is most vulnerable to intrusion?

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

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.

QUESTION 33
Which type of network covers the broadest area?

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

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

QUESTION 35
In a physical star topology, the central device is referred to as a:

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

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

QUESTION 37
Which two are published IEEE 802.11 wireless transmission standards? (Choose two.)

A. 802.1 If
B. 802.11g
C. 802.11k
D. 802.11m
E. 802.11n

QUESTION 38
What happens when an 802.11b node starts broadcasting within the range of an 802.llg 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.

QUESTION 39
Which technology provides the highest bit rate?

A. T1
B. EI
C. DS3
D. ISDN

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.

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

QUESTION 42
Which wireless authentication method provides the highest level of security?

A. Wired Equivalency Privacy (WEP)
B. IEEE 802.lln
C. WI-FI Protected Access (WPA)
D. IEEE 802.11a

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.

QUESTION 44
The maximum throughput of an 802.llg network is:

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

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

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)

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

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).

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.

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

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

QUESTION 52

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

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

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

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

QUESTION 55

Which of the following uses pointer records and A records?

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

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

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.

QUESTION 58

Which of these is an application layer protocol?

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

QUESTION 59

The top-level domain ofwww.adventureworks.com is:

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

QUESTION 60

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

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

QUESTION 61

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

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

QUESTION 62

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

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

QUESTION 63

In addition to switching, multilayer switches also:

A. Provide Layer 3 routing functions.
B. Interface with CAT3, CATS, 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.

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,

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

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.

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.

QUESTION 68
In which physical network topology is each computer connected to a central point?

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

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

QUESTION 70
A private network that allows members of an organization to exchange data is an:

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

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.

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.

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

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.

QUESTION 75
Which protocol can be used to encrypt packets on the Internet?

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

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).

QUESTION 77
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.

QUESTION 78
Which of the following services masks internal IP addresses from outside the network?

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

QUESTION 79
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.

QUESTION 80
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.

QUESTION 81
In which OSI layer does routing occur?

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

QUESTION 82
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

QUESTION 83
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.

QUESTION 84
How many bits are there in an Internet Protocol version 6 (IPv6) address?

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

QUESTION 85
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

QUESTION 86
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

QUESTION 87
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

QUESTION 88

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

QUESTION 89

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

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

QUESTION 90

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

QUESTION 91

Which protocol is a transport layer protocol?

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

QUESTION 92

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

QUESTION 93

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

QUESTION 94
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

QUESTION 95
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

QUESTION 96
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

QUESTION 97
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

QUESTION 98
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

QUESTION 99
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.

QUESTION 100
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

QUESTION 101
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. 192168.100.0 -192.168.100.255
D. No change is needed

QUESTION 102
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

QUESTION 103
This question requires that you evaluate the underlined text to determine if it is correct.

A/anvirtual 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

QUESTION 104
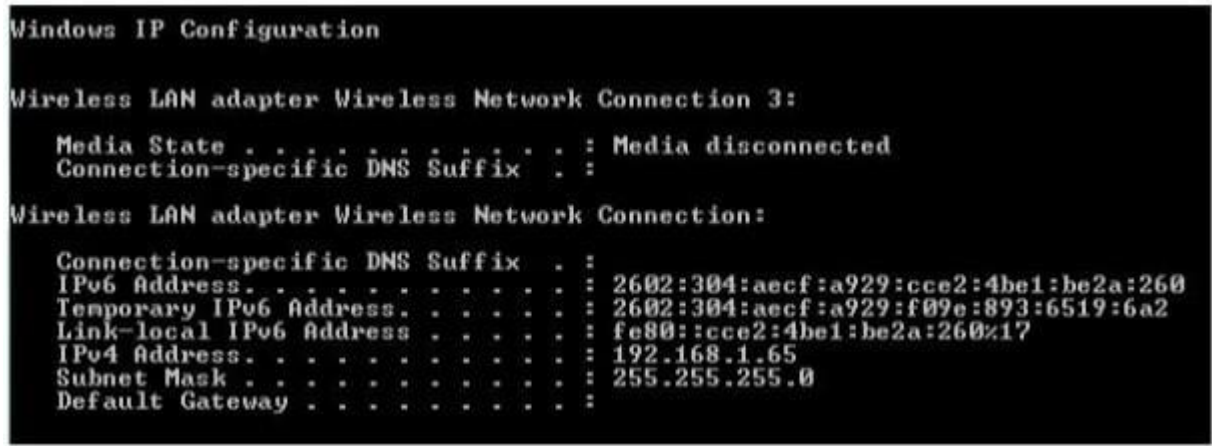This question requires that you evaluate the underlined text to determine if it is correct.

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. 192168.1.1
D. No change is needed

QUESTION 105
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

QUESTION 106
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

QUESTION 107
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

QUESTION 108
Which feature of Category 5e STP cable reduces external interference?

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

QUESTION 109
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.

QUESTION 110
For which two reasons should you use IPsec between computers? (Choose two.)

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

QUESTION 111
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

QUESTION 112
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

QUESTION 113
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

QUESTION 114
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

QUESTION 115
Which wireless communication problem is caused by electromagnetic waves?

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

QUESTION 116
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

QUESTION 117
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.

QUESTION 118
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.

QUESTION 119
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

QUESTION 120
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

QUESTION 121
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

QUESTION 122
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

QUESTION 123
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

QUESTION 124
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.

QUESTION 125
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.

QUESTION 126
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.

QUESTION 127
Which protocol is responsible for automatically assigning IP addresses?

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

QUESTION 128
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

QUESTION 129

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

QUESTION 130

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

QUESTION 131

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

QUESTION 132

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

QUESTION 133

Which of these cable types transmits data the greatest distance?

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

QUESTION 134

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.

QUESTION 135
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

QUESTION 136
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

QUESTION 137
What is an example of a Layer 3 device that connects multiple computers and networks?

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

QUESTION 138
Which metric does Routing Information Protocol (RJP) use to determine the least costly route?

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

QUESTION 139
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.

QUESTION 140
What is the DNS record type that specifies an alias name of another address record?

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

QUESTION 141
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

QUESTION 142
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

QUESTION 143
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.
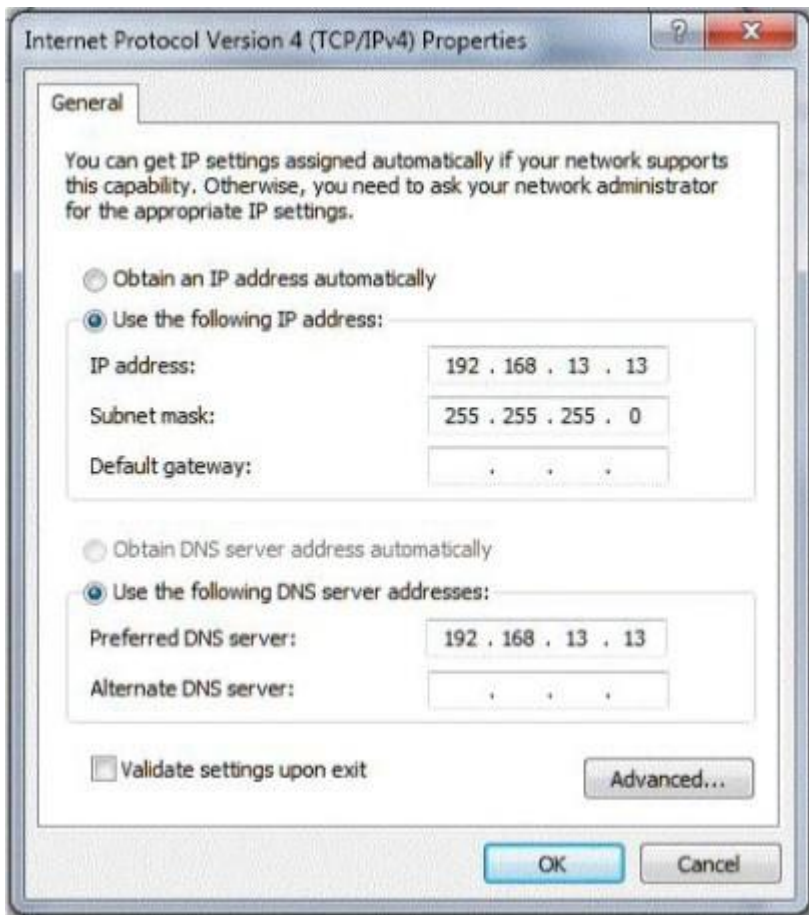
You need to change the settings to access websites.
Use the drop-down menus to select the answer choice that completes each statement. Each
correct selection is worth one point.

Hot Area:

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 |

Correct 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 |

Section: (none)
Explanation

Explanation/Reference:

QUESTION 152
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.

Select and Place:

Correct Answer:

Network Types	Answer Area	
	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

Section: (none)
Explanation

Explanation/Reference:

QUESTION 153
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.

Select and Place:

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

Correct Answer:

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	Site-to-Site VPN
	creates an unencrypted connection between two network devices	Layer 2 Tunneling Protocol

Section: (none)
Explanation

Explanation/Reference:

QUESTION 154
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.

Select and Place:

Sets

Frequency range: 2.4-2.485 Ghz Data rate: 11 Mbps	
Frequency range: 2.4-2.485 Ghz Data rate: 54 Mbps	
Frequency range: 2.4-2.485 Ghz or 5.1-5.8 Ghz Data rate: 65-600 Mbps	
Frequency range: 5.1-5.8 Ghz Data rate: 54 Mbps	

Answer Area

802.11a	Set
802.11b	Set
802.11g	Set
802.11n	Set

Correct Answer:

Sets

Answer Area

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

Section: (none)
Explanation

Explanation/Reference:

QUESTION 155
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.

Select and Place:

| Topologies	Answer Area	
Star	Each computer is connected by a single cable.	Topology
Mesh	Each workstation acts as a repeater.	Topology
Ring	Each computer is connected to every other computer.	Topology
	There is a central connectivity device.	Topology
	The number of connections equals the total number of computers minus one.	Topology
	Each node is connected to exactly two other nodes.	Topology

Correct Answer:

Topologies	Answer Area	
Star	Each computer is connected by a single cable.	Star
Mesh	Each workstation acts as a repeater.	Ring
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

Section: (none)
Explanation

Explanation/Reference:

QUESTION 156
Identify the network cable type and connector in the following graphic:
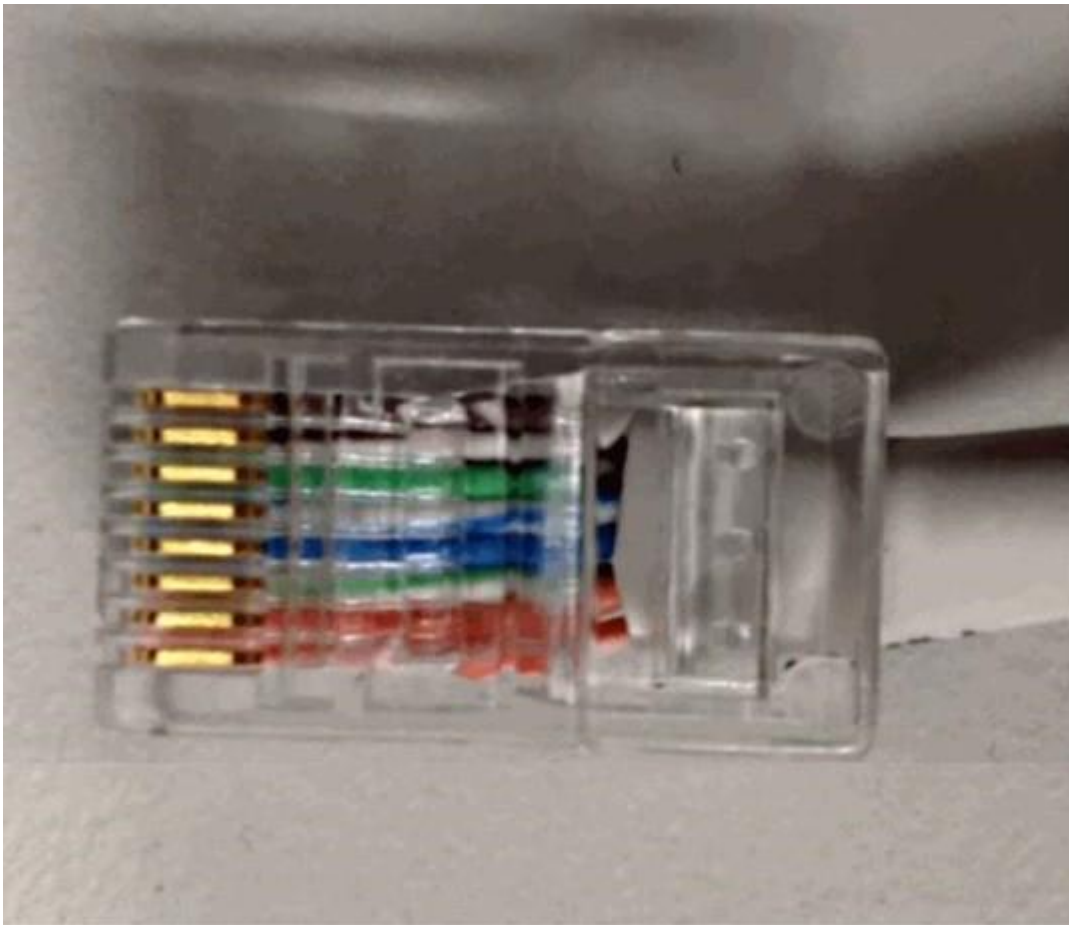
Use the drop-down menus to select the answer choice that answers each question. Each correct selection is worth one point.

Hot Area:

Answer Area

Connector type [▼]
    RJ45
    RJ11
    FDDI

Cable type [▼]
    Ethernet
    Cat3
    Fiber Optic

Correct Answer:

Answer Area

Connector type [▼]
    RJ45
    RJ11
    FDDI

Cable type [▼]
    Ethernet
    Cat3
    Fiber Optic

Section: (none)
Explanation

Explanation/Reference:

QUESTION 157
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
With a recursive DNS query, the DNS server will contact any other DNS servers it knows about to resolve the request.	O	O
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.	O	O
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.	O	O

Correct 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.	●	○
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.	○	●
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.	●	○

Section: (none)
Explanation

Explanation/Reference:

QUESTION 158
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.

Select and Place:

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	

Correct Answer:

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

Section: (none)
Explanation

Explanation/Reference:

QUESTION 159
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
The tracert command displays router addresses that are traversed between a source and a destination.	O	O
The tracert command determines packet loss between a source and a destination.	O	O
The tracert command can display a list of routers being used for all active connections.	O	O

Correct Answer:

Answer Area

	Yes	No
The tracert command displays router addresses that are traversed between a source and a destination.	●	O
The tracert command determines packet loss between a source and a destination.	O	●
The tracert command can display a list of routers being used for all active connections.	O	●

Section: (none)
Explanation

Explanation/Reference:

QUESTION 160
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.

Select and Place:

Ports		Answer Area	
80		SMTP	Port
53		FTP	Port
25		HTTPS	Port
21			
443			

Correct Answer:

Ports		Answer Area	
80		SMTP	25
53		FTP	21
		HTTPS	443

Section: (none)
Explanation

Explanation/Reference:

QUESTION 161
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
0:0:0:0:0:0:0:1 is the Loopback address for IPv6.	○	○
FEC0::9C5A is a valid Site-Local IPv6 address.	○	○
FE80::F856:02AA is a valid Link-Local (APIPA) IPv6 address.	○	○

Correct Answer:

Answer Area

	Yes	No
0:0:0:0:0:0:0:1 is the Loopback address for IPv6.	○	○
FEC0::9C5A is a valid Site-Local IPv6 address.	○	○
FE80::F856:02AA is a valid Link-Local (APIPA) IPv6 address.	○	○

Section: (none)
Explanation

Explanation/Reference:

QUESTION 162
You are configuring a wireless network with the Wireless Network Properties that are shown in
the following image:

Shard Wireless Network Properties

Connection | Security

Name: Shard
SSID: Shard
Network type: Access point
Network availability: All users

☑ 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)

Copy this network profile to a USB flash drive

OK   Cancel

Shard Wireless Network Properties

Connection | **Security**

Security type: WPA2-Personal
No authentication (Open)
Shared
Encryption type: WPA2-Personal
Network security key WPA-Personal
WPA2-Enterprise
WPA-Enterprise
802.1X

Advanced settings

OK   Cancel

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

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

Correct 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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 163
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
Dynamic Routing provides the ability to add networks automatically by learning them from other RIP routers.	O	O
Dynamic Routing provides the ability to automatically remove routes from the routing table when other RIP neighbors delete them.	O	O
Dynamic Routing provides the ability to select the best route based on routing metrics.	O	O

Correct Answer:

Answer Area

	Yes	No
Dynamic Routing provides the ability to add networks automatically by learning them from other RIP routers.	O	O
Dynamic Routing provides the ability to automatically remove routes from the routing table when other RIP neighbors delete them.	O	O
Dynamic Routing provides the ability to select the best route based on routing metrics.	O	O

Section: (none)
Explanation

Explanation/Reference:

QUESTION 164
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.

Select and Place:

OSI Layers

OSI Layers
Data Link
Network
Session
Application

Answer Area

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

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

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

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**

Correct Answer:

OSI Layers

OSI Layers
Data Link
Network
Session
Application

Answer Area

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**

Section: (none)
Explanation

Explanation/Reference:

QUESTION 165
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:
Use the drop-down menus to select the answer choice that completes each statement. Each
correct selection is worth one point.

```
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.

Hot Area:

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.

Correct 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.

Section: (none)
Explanation

Explanation/Reference:

QUESTION 166
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.

Select and Place:

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

Correct Answer:

Address Types	Answer Area	
	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

Section: (none)
Explanation

Explanation/Reference:

QUESTION 167
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
A switch sends unicast packets to one destination port only.	○	○
A switch floods ports if it does not know where to send a packet.	○	○
A switch sends broadcast packets to the uplink port only.	○	○

Correct Answer:

Answer Area

	Yes	No
A switch sends unicast packets to one destination port only.	●	○
A switch floods ports if it does not know where to send a packet.	●	○
A switch sends broadcast packets to the uplink port only.	○	●

Section: (none)
Explanation

Explanation/Reference:

QUESTION 168
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
You use a perimeter network to grant internal clients access to external resources.	○	○
A LAN has no access to the perimeter network.	○	○
A perimeter network typically contains servers that require Internet access, such as web or email servers.	○	○

Correct Answer:

Answer Area

	Yes	No
You use a perimeter network to grant internal clients access to external resources.	○	⬤
A LAN has no access to the perimeter network.	○	⬤
A perimeter network typically contains servers that require Internet access, such as web or email servers.	⬤	○

Section: (none)
Explanation

Explanation/Reference:

QUESTION 169
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:
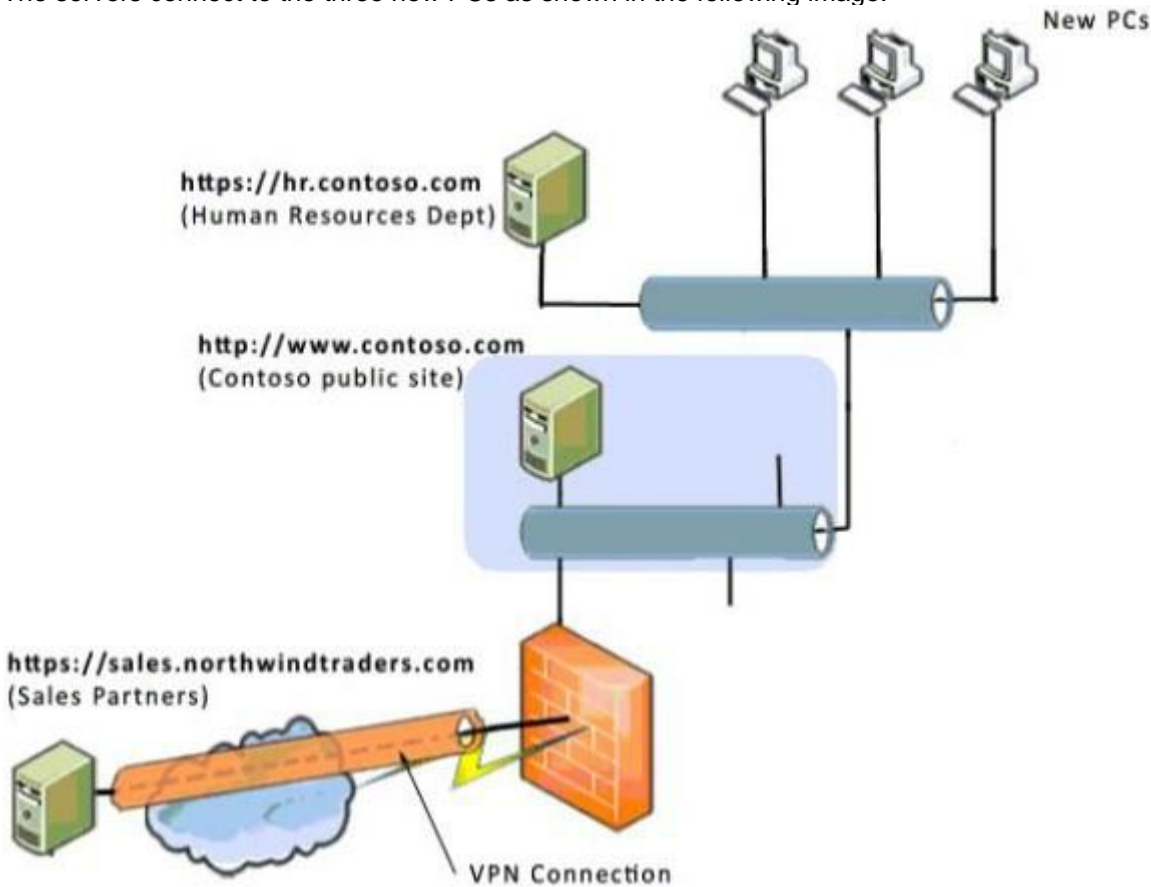
Use the drop-down menus to select the answer choice that completes each statement. Each correct selection is worth one point.

Hot Area:

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.

Correct 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.

Section: (none)
Explanation

Explanation/Reference:

QUESTION 170
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
A wireless bridge connects Ethernet-based devices to the network.	○	○
A wireless bridge increases the wireless signal strength of the access point.	○	○
Wireless bridges always work in pairs.	○	○

Correct Answer:

Answer Area

	Yes	No
A wireless bridge connects Ethernet-based devices to the network.	○	○
A wireless bridge increases the wireless signal strength of the access point.	○	○
Wireless bridges always work in pairs.	○	○

Section: (none)
Explanation

Explanation/Reference:

QUESTION 171
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:
An IPv4 address consists of 64 bits.	O	O
It is standard practice to divide the binary bits of an IPv4 address into 8-bit fields named octets.	O	O
The value of any IPv4 octet can be from 0 to 256.	O	O

Correct Answer:

Answer Area

	Yes	No:
An IPv4 address consists of 64 bits.	O	◉
It is standard practice to divide the binary bits of an IPv4 address into 8-bit fields named octets.	◉	O
The value of any IPv4 octet can be from 0 to 256.	O	◉

Section: (none)
Explanation

Explanation/Reference:

QUESTION 172
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
Quality of Service (QoS) allows you to define the priority traffic on the network.	O	O
Quality of Service (QoS) allows you to control bandwidth.	O	O
Quality of Service (QoS) allows you to assign protocols dynamically.	O	O

Correct Answer:

Answer Area

	Yes	No
Quality of Service (QoS) allows you to define the priority traffic on the network.	◉	O
Quality of Service (QoS) allows you to control bandwidth.	◉	O
Quality of Service (QoS) allows you to assign protocols dynamically.	O	◉

Section: (none)
Explanation

Explanation/Reference:

QUESTION 173
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
HTTP, TELNET, FTP, and SMTP protocols operate on Layer 7 of the OSI model.	○	○
Layer 4 of the OSI model controls dialogue between computers.	○	○
Layer 3 of the OSI model controls routing between network devices.	○	○

Correct Answer:

Answer Area

	Yes	No
HTTP, TELNET, FTP, and SMTP protocols operate on Layer 7 of the OSI model.	●	○
Layer 4 of the OSI model controls dialogue between computers.	○	●
Layer 3 of the OSI model controls routing between network devices.	●	○

Section: (none)
Explanation

Explanation/Reference:

QUESTION 174
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. . . . . . . . . : 00-00-00-00-00-00-00-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.

Hot Area:

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. |

Correct 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. |

Section: (none)
Explanation

Explanation/Reference:

QUESTION 175
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
IPv6 addresses are 64-bit in length.	○	○
IPv6 addresses are divided into 8-bit blocks.	○	○
IPv6 addresses are represented by dotted-decimal notation.	○	○

Correct Answer:

Answer Area

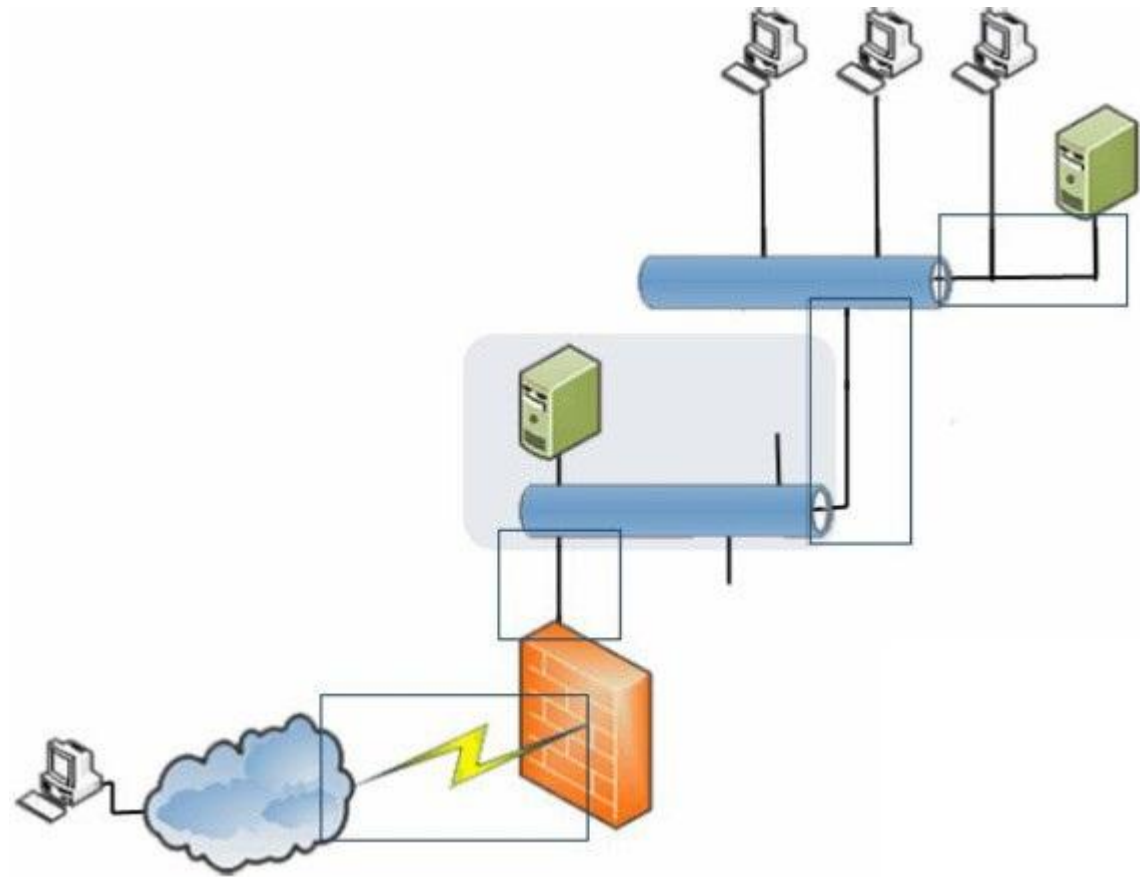|	Yes	No
IPv6 addresses are 64-bit in length.	○	○
IPv6 addresses are divided into 8-bit blocks.	○	○
IPv6 addresses are represented by dotted-decimal notation.	○	○

Section: (none)
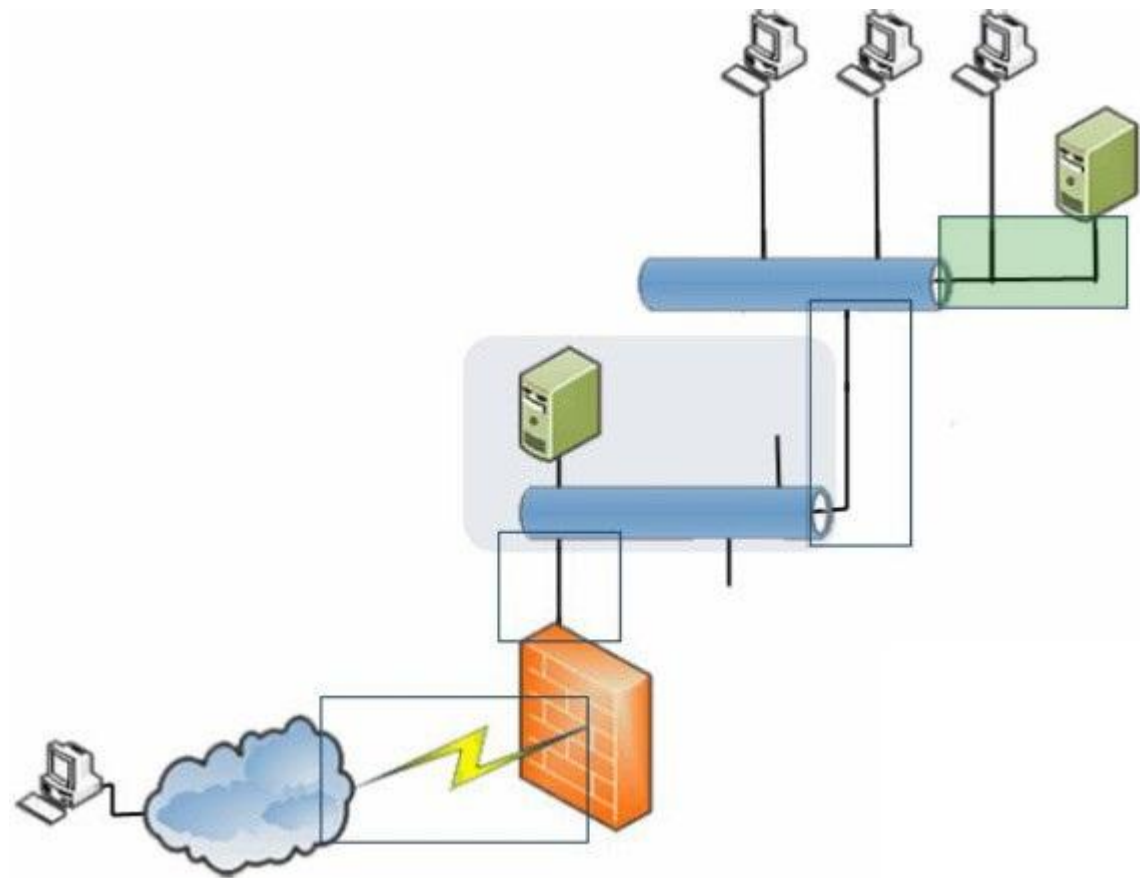**Explanation**

Explanation/Reference:

QUESTION 176
Where in the diagram is a T3 connection possible? (To answer, select the appropriate connection in the diagram in the answer area.)

Hot Area:

Correct Answer:

Section: (none)
Explanation

Explanation/Reference: