

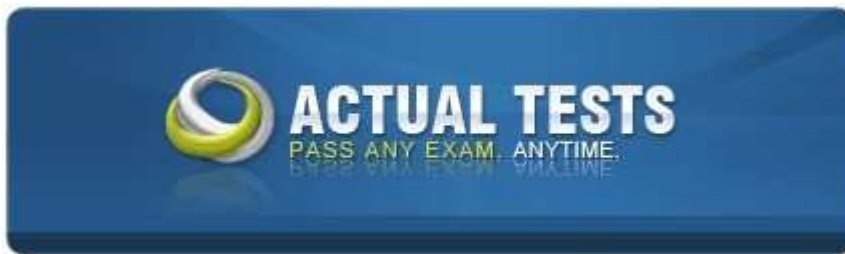
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CompTIA JK0-016



JK0-016 CompTIA Network +( 2009 Edition) Exam

Practice Test  
Version 3.0

## **Exam A**

### **QUESTION 1**

When surfing the internet, which layer of the OSI Model will result in a session time-out?

- A. Layer 2
- B. Layer 4
- C. Layer 5
- D. Layer 6

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 2**

A customer complains that when there is a phone call at home, the wireless on his notebook computer will lost connection. What is the most likely cause of this issue?

- A. The cordless phones are plugged into the RJ-11 jack
- B. The cordless phones are plugged into same outlet as the router
- C. The cordless phones are 2.4Ghz which interferes with wireless
- D. The cordless phones are 5.8Ghz which interferes with wireless

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

If you want to use a 100BASE-T network to connect two servers and five workstations, which physical topology will you use?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 4**

In an RJ-11 connector, how many wire pairs can be used at most?

- A. 2
- B. 4
- C. 6

D. 8

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

Which term best describes a server that can be configured to block connections according to the static address of a computer?

- A. Kerberos
- B. RADIUS
- C. IP address filtering
- D. MAC address filtering

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

How many wires can be fit into RJ-11 connector at most?



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- A. 2
- B. 4
- C. 6
- D. 8

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

CAT 5 cable is a twisted pair (4 pairs) high signal integrity cable type. In a main distribution frame (MDF), which is the highest transmission speed for a CAT5 network cable?

- A. 1Mbps.
- B. 10Mbps.
- C. 100Mbps.

D. 1000Mbps.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 8**

Which of the following operates at a maximum of 16 Mbps?

- A. 10GBase-SR
- B. 10Base-T
- C. Token Ring
- D. FDDI

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 9**

Which network device connects to a Telco T1 line at the boundary point?

- A. Modem
- B. ISDN adapter
- C. NIC
- D. CSU / DSU

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 10**

Which network component transmits packets through a wireless network?

- A. WAP
- B. NIC
- C. CSU / DSU
- D. WEP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

Which document describes the coverage area of a wireless network in detail?

- A. Baseline
- B. Physical network diagram
- C. Logical network diagram
- D. Site survey

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

Which of the following is the maximum number of a network ID in a Class C subnet?

- A. 20bits
- B. 24bits
- C. 32bits
- D. 34bits

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

Which of the following will a company work with if it wants to use one of the reserved private IP address ranges?

- A. IEEE
- B. their legal department.
- C. IANA
- D. their IT department.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

Which of the following is the maximum number of a Host ID in a Class A subnet?

- A. 20bits
- B. 24bits
- C. 32bits
- D. 34bits

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

Which of the following statements regarding FDDI (Fiber Distributed Data Interface) is TRUE?

- A. FDDI uses CSMA / CD (Carrier Sense Multiple Access / Collision Detection) for media access control.
- B. FDDI consists of two counter rotating token rings.
- C. FDDI has a maximum transmission speed of 54 Mbps.
- D. FDDI has a maximum transmission distance of 1,000 meters.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

On the Windows proxy server 10.1.1.7, latency happens every morning, in order to identify how serious the latency is, which of the following can be used?

- A. nbtstat -t 10.1.1.7
- B. arp -t 10.1.1.7
- C. ping -t 10.1.1.7
- D. tracert -t 10.1.1.7

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Look at the following items carefully, then select the network segment situated outside the firewall.

- A. SPAP
- B. PPTP
- C. DMZ
- D. VPN

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Which IEEE standard describes Thinnet?

- A. 802.3a
- B. 802.3ab

- C. 802.3ae
- D. 802.3u

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks. It works at which layer of the OSI model?

- A. Presentation
- B. Application
- C. Transport
- D. Network

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

Refer to the following items, which is the objective of a NIC?

- A. It filters frame packets
- B. It sends data to Non-Volatile RAM
- C. It transceives digital data
- D. It captures keystrokes

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 21**

Which statement about VLAN trunking is correct?

- A. VLAN broadcasting domains
- B. VLAN applied to more than one switch
- C. VLAN applied to a router
- D. VLAN port isolation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Given the NIC's IP address, how to determine the NIC's MAC address without going to the computer?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Assume that you are a network technician, a remote customer is complaining about the disconnection to a new VPN. What will you do?

- A. Document the solution and process
- B. Identify the symptoms and potential causes
- C. Establish what has changed
- D. Implement an action plan

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

You are the network assistant at certways.com. The network technician is troubleshooting a network connectivity problem. He asks you to determine the most probable cause of the problem. Which of the following would you need to do? (Choose all that apply)

- A. Identify the symptoms.
- B. Identify the affected area.
- C. Identify what has changed.
- D. Implement a solution.

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

Multimode fiber-optic cable is used in \_\_\_\_\_.

- A. 1000Base-CX
- B. 10GBase - SR
- C. 10GBase-ER



D. 10GBase-LR

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Which of the following can assure the security of data transmission via an IP network?

- A. SIP
- B. Telnet
- C. FTP
- D. TLS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Use a hub to share files on a network can be achieved through which pair of IPv4 addresses?

- A. 10.192.2.220/16 and 10.254.2.222/16
- B. 10.254.2.220/16 and 10.254.2.222/24
- C. 10.254.2.220/16 and 10.254.2.222/16
- D. 10.192.2.220/16 and 10.254.2.222/16

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

A company's network currently has three Microsoft Windows 2000 servers. A Novell NetWare 4.0 server is added, but none of the Microsoft Windows 2000 servers can access the Novell server. What must be done so that the Microsoft Windows 2000 servers can access the Novell NetWare 4.0 server?

- A. Install NetBEUI (Network Basic Input / Output Extended User Interface) on the Microsoft Windows 2000 servers
- B. Install NetBEUI (Network Basic Input / Output Extended User Interface) on the Novell NetWare 4.0 server
- C. Install NWLINK on the Microsoft 2000 servers
- D. Install NWLINK on the Novell NetWare 4.0 server

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

One network technician is able to telnet the remote server of his company, however he is unable to connect to any other servers, but can ping them using an IP address. Why?

- A. DHCP is not correctly configured.
- B. The server is on a different physical network.
- C. The server is on a different VLAN.
- D. DNS is not correctly configured.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

A fully qualified domain name (FQDN), sometimes referred to as an absolute domain name, is a domain name that specifies its exact location in the tree hierarchy of the Domain Name System (DNS). On a network, the DNS services are in failed state, several customers want to access specific services using FQDN, which of the following is the best solution?

- A. change all domain relationships to WINS.
- B. release and renew DHCP.
- C. change the IP address of the specific services needed.
- D. create a local host file on the PC.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

Logical Topology (also referred to as Signal Topology) is a network computing term used to describe the arrangement of devices on a network and how they communicate with one another. Which logical topology uses distributed authentication?

- A. VPN
- B. Client/server
- C. VLAN
- D. P2P

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

There are several different standards for this copper-based physical medium. The most widely used are 10BASE-T, 100BASE-TX, and 1000BASE-T (Gigabit Ethernet), running at 10 Mbit/s, 100 Mbit/s, and 1000 Mbit/s.

s (1 Gbit/s) respectively. 10Base-T differs from 100Base-T in which of the following ways?

- A. 100Base-T requires STP cabling.
- B. smaller headers on Ethernet frames.
- C. shorter timing between Ethernet frames.
- D. 100Base-T frames hold more data.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 33**

You have received a call, saying that users are able to visit Internet web pages but can't visit the internal company website. Why?

- A. The intranet server is down.
- B. The DNS address handed out by DHCP is incorrect.
- C. The intranet DNS entry is non-authoritative.
- D. The default gateway is incorrect.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 34**

Which media type is NOT susceptible to electromagnetic interference (EMI)?

- A. Unshielded Twister Pair cable
- B. Shielded Twister Pair cable
- C. Co-axial cable
- D. Fiber-optic cable

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 35**

According to the following presented information, can you tell me which of the following has been used? Tracing route to 172.30.0.78 over a maximum of 30 hops 1 <1 ms <1 ms 172.30.0.78

- A. tracer
- B. netstat
- C. ping
- D. arp

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

A user wants to use his laptop through the wireless network. The wireless has been configured with DHCP, and a temporary WEP key has been assigned. Why the laptop fails to connect to the network?

- A. MAC filtering is enabled on the WAP.
- B. DNS server is not working properly.
- C. the network is out of wireless connections.
- D. this laptop is enabled for both 802.11b and 802.11g.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 37**

Which layer of the OSI model routes data across segments?

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

Extensible Authentication Protocol, or EAP, is a universal authentication framework frequently used in wireless networks and Point-to-Point connections. On wireless networks, EAP expands on authentication methods used by which of the following?

- A. SCP
- B. PPP
- C. SSH
- D. HTTPS

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Given a device from outside the network, if you want to mask the IP address of this device, which of the

following will you use?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 40**

Several hosts with an IP address of 169.254.0.1 can't access the network. As a network technician, which of the following will you examine?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 41**

A small company connected to the Internet through a SOHO (Small Office / Home Office) router wants to make an internal web server public on the Internet. Computers on the LAN (Local Area Network) can access the web pages but Internet users cannot. What should be done to solve the problem?

- A. Make certain the web site has an external DNS (Domain Name Service) (Domain Name Service) name and a public IP (Internet Protocol) address, the web site is functioning, and that port 53 is open on the router.
- B. Make certain the web site has a public IP (Internet Protocol) address, the web site is functioning, and that port 80 is open on the router.
- C. Make certain the web site has an external DNS (Domain Name Service) name and a public IP (Internet Protocol) address, and that port 80 is open on the router.
- D. Make certain the web site has an external DNS (Domain Name Service) name, the web site is functioning, and that port 53 is open on the router.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 42**

Which action will you take first if remote customers can't access files from a file server?

- A. Connectivity
- B. Access rights

- C. User accounts
- D. Network resources

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 43**

The highest bandwidth of 54Mbps operating at 5GHz belongs to which IEEE standard?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 44**

How many broadcast domains are created by a 24 port switch configured with 12 VLANs with all of the ports being actively used?

- A. 2
- B. 12
- C. 24
- D. 36

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

On a wireless network, the wireless card and the original computers run normally. A technician is asked to connect a laptop through the small office, home office (SOHO) wireless access point. However, when using this laptop to test connectivity, the wireless network is not found, what is the probably source of this problem?

- A. The laptop is running on Windows Service Pack 1.
- B. The WEP key is not correct.
- C. The SSID is set to not broadcast.
- D. The wireless router does not have adequate AC power.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

Assume that you are a network administrator, you are asked to deploy a small wireless network to authenticate each user with encrypted usernames and passwords. Which technology will be of help to you?

- A. 64-bit WEP
- B. WPA PEAP
- C. 128-bit WEP
- D. WPA TLS

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

Users want to connect to Internet without attaching to the company server. Workers of this company also want to connect to the company server and Internet. All connections are controlled by the same switch. What needs must be satisfied?

- A. VLAN
- B. RIP
- C. Porttrunking
- D. OSPF

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

A client noticed that traffic has increased steadily over the last few months and performance is beginning to suffer on its TCP / IP (Transmission Control Protocol / Internet Protocol). Which network device can be installed to reduce the impact of network traffic without dividing the LAN (Local Area Network) into separate subnets?

- A. Bridge
- B. Repeater
- C. Router
- D. Gateway

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

Your computer can't connect to the network, and the link lamp on the NIC is not light. How will you do first?

- A. Replace the NIC card with a known good NIC card.
- B. Verify network cable connectivity.
- C. Reinstall NIC drivers with the most current drivers.
- D. Check to make sure that the port on the switch is working properly.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 50**

In order to allow a network to have a smaller broadcast domain with the minimum budget, which solution is best?

- A. Implement more switches.
- B. Assign static IPs.
- C. Implement more hubs.
- D. Create VLAN.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 51**

Which of the following has a maximum data transmission rate of 10 Gbps?

- A. 10Base-2, 10Base-5 and 10Base-T.
- B. 100Base-FX, 100Base-TX and FDDI.
- C. 1000Base-CX, 1000Base-LX and 1000Base-SX.
- D. 10GBase-ER, 10 GBase-LR and 10 GBase-SR.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 52**

Select a network device from the following to create VLANs?

- A. Routers
- B. Gateways
- C. Bridges
- D. Switches

**Correct Answer:** D

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 53**

Which statement best describes VLANs?

- A. VLANs help prevent overlapping.
- B. VLANs help isolate network traffic.
- C. VLAN broadcasts are limited to the switch.
- D. VLANs create physical segments.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

With which of the following would you use a RJ-45 connector? (Choose Two.)

- A. 100Base-T
- B. 1000Base-CX
- C. 1000Base-LX
- D. 1000Base-TX

**Correct Answer: AD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

Which of the following can be used to inspect network traffic?

- A. Network monitor
- B. NWLink
- C. Nbtstat
- D. Tracert

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

In telecommunications and software engineering, scalability is a desirable property of a system, a network, or a process, which indicates its ability to either handle growing amounts of work in a graceful manner, or to be readily enlarged. Which topology is used in network due to its scalability?

- A. Ring
- B. Star

- C. Bus
- D. Mesh

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 57**

A remote user cannot use the URL <http://mine.mypage.info> to access the secure web server. The page is functional from other computers. The reason is that the user:

- A. has the wrong browser version.
- B. does not have access to .info domains.
- C. has not entered https.
- D. has not entered www.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 58**

A workstation presents an error message to a user. The message states that "Duplicate IP (Internet Protocol) has been detected on the network." After establishing what has changed in the network, what should be the NEXT step using the standard troubleshooting model?

- A. Test the result
- B. Select the most probable cause
- C. Implement an action plan
- D. Document the solution and process

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 59**

Which type of cable is often used in a corporate gigabit network scheme?

- A. CAT1
- B. CAT6
- C. CAT3
- D. CAT5

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



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**QUESTION 60**

Your company wants to deploy a network with 30Mbps at the lowest cost. Which type of cable can help you achieve this goal?

- A. CAT5e
- B. CAT1
- C. CAT3
- D. CAT6

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

Which of the following are the most common fiber-optic cable connectors?

- A. MT-RJ and LC.
- B. ST and MT-RJ.
- C. LC and SC.
- D. SC and ST.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

Select a network device to divide a network and eliminate the network congestion.

- A. Repeater
- B. Gateway
- C. Switch
- D. Hub

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 63**

A customer intends to enlarge the range of wireless network without running wires throughout the small office. Which action takes the least administrative effort?

- A. Install a repeater at the end of the office.
- B. Install an 802.11n router and change all NICS to match.
- C. Install a WAP in the middle of the office.
- D. Install an additional router to help with congestion.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 64**

A patch cable is used to connect which of the following in a token ring network?

- A. A host to a switch
- B. A host to a hub
- C. Two MAUs
- D. Two hosts

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

There are four hosts in a customer's small network. Which devices below will help the customer to connect the four computers to a single cable modem?

- A. Four port hub
- B. Four port wireless router
- C. Four port switch
- D. Four port WAP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 66**

Which of the following network device can connect multiple devices but not segment a network?

- A. hub
- B. router
- C. switch
- D. bridge

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

The certways.com network has a 100Base-T switch. You need to add a new host to the certways.com network. Which cable would you require?

- A. RG-58 co-axial cable.
- B. A Category 3 UTP cable.
- C. A Category 5 UTP cable.
- D. A MultiMode Fiber-optic cable.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

If you want to fix a physical interface issue, which cable will you make?

- A. Console
- B. Loopback
- C. Serial
- D. Rollover

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 69**

Which of the following is the maximum number of pins in an RJ-11 connector?

- A. 2
- B. 4
- C. 6
- D. 8

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 70**

How many bits does MAC address have?

- A. 22bit
- B. 34bit
- C. 48bit
- D. 62bit

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

A valid MAC address contains how many bytes?

- A. 2
- B. 4
- C. 6
- D. 8

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 72**

In order to simplify the process of network configuration and administration, which item will you use?

- A. WINS
- B. ZEROCONF
- C. SNMP
- D. DNS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 73**

Which protocol belongs to IP protocol suite and can monitor network managed equipments?

- A. SMB
- B. SMTP
- C. LDAP
- D. SNMP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

Which protocols can be used to transfer files after setting up interoperability between Macintosh systems and Windows Systems? (Select TWO).

- A. AFP
- B. LDAP
- C. SNMP
- D. SMB

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 75**

Which item can transmit data at the speed of 44.7Mbps?

- A. T5
- B. T1
- C. T3
- D. T2

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 76**

Which of the following can be used to telnet an office computer through remote desktop safely?

- A. VPN
- B. Telnet
- C. Tagged packets
- D. VLAN

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 77**

A Microsoft client is configured to use the NWLINK IPX / SPX (Internetwork Packet Exchange / Sequence Packet Exchange) protocol. The network has four Novell servers but the client can only see two of the servers. The client wants to change to frame type setting to see all of the servers. What setting should the client make to correct the problem and see all of the servers?

- A. Configure the frame type to auto frame type detection

- B. Configure the frame type for 802.3
- C. Configure the frame type to 802.3 or 802.2
- D. Configure the frame type for NetBIOS (Network Basic Input / Output System)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 78

According to the following information, can you tell me which command can generate this output? DNS request timed out. timeout was 2 seconds.\*\*\* Cant find server name for address 172.30.0.5: Timed out\*\*\* Default servers are not availableServer: UnKnownAddress: 172.30.0.5DNS request timed out, timeout was 2 seconds.\*\*\* Request to UnKnown timed-out

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 79

When the first network card is unavailable, a second card in a server that activates will replace it, Which feature best describes this network performance optimization?

- A. High availability
- B. Load balancing
- C. QoS
- D. Fault tolerance

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 80

According to the following information, can you tell me which command and switch combination can generate this output? Interface: 172.30.0.102 --- 0x2 Internet Address Physical Address Type 172.30.0.5 00-30-48-82-72-8c dynamic

- A. arp -a
- B. netstat -s
- C. netstat -a
- D. arp -s



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 81**

A user can log into all Internet sites properly except their bank site. The bank site page loads but does not function. Why?

- A. they need to enable 128bit encryption on their browser.
- B. NetBEUI does not work with financial institutions.
- C. DNS cannot resolve the bank domain name.
- D. they have CHAP disabled on their computer.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 82**

In the environment of Windows, which command can generate this output? 1 \* \* \* Request timed out. 2 \* \* \* Request timed out. 3 \* \* \* Request timed out.

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 83**

When accessing a gigabit connection, which step is the first?

- A. Change the CAT3 cable to RG-58 cable.
- B. Change the CAT5 cable to a CAT6 cable.
- C. Change the CAT5 cable to a CAT5 Crossover cable.
- D. Change the CAT5 cable to a CAT3 cable.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 84**

When one connection to a host fails in a full mesh network, which of the following is true?

- A. All hosts can communicate.
- B. No hosts can communicate.
- C. Half of the hosts will lose communication.
- D. Only the two hosts between the failed connection will lose communication.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 85**

In an enterprise environment, what is the objective of using a proxy server?

- A. Allows the client to get a fixed IP address when added to the network
- B. Allows the administrator to block malicious attacks on the network
- C. Allows the user to access hard to find websites
- D. Allows granular control over the traffic between the local LAN and the Internet

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 86**

What command can display the relationship between a MAC address and the corresponding IP address?

- A. arp
- B. ipconfig
- C. nslookup
- D. tracer

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 87**

The 802.11 frequency band is:

- A. 1.5 GHz (Gigahertz).
- B. 2.4 GHz (Gigahertz).
- C. 5.0 GHz (Gigahertz).
- D. 7.0 GHz (Gigahertz).

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 88**

It is important for network technicians to know Internet connectivity well.

Which item below can help technicians to monitor the router to see whether it has failed or not?

- A. SFTP
- B. SLIP
- C. SMTP
- D. SNMP

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 89**

802.11a operates at which frequency range?

- A. 54GHz
- B. 2.4GHz
- C. 5GHz
- D. 4.9GHz

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 90**

You work as a network administrator at certways.com. certways's network is medium-sized and consists of a mixture of different platform computers. The network is split into multiple subnets located across a large geographical area. IEEE 802.11g Wireless Access Points are found in more than half of the subnets. You receive reports that one of the subnets has experienced a lot of downtime. You are sent to the branch office with the network to conduct on-site troubleshooting. You soon notice that the downtime only affects wireless users and the downtime lasts approximately an hour around midday every day. Which of the following would be an appropriate action to address this problem?

- A. Upgrade all affected computers to a uniform platform running in ad-hoc mode
- B. Eliminate any sources of RFI (Radio Frequency Interference) around the WAP (Wireless Access Point)
- C. During the affected time, connect the WAP (Wireless Access Point) directly into the router
- D. Change the WAP (Wireless Access Point) and all affected computers to operate in ad-hoc mode

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

How many bits compose an Ethernet MAC address?

- A. 64bits.
- B. 12bits.
- C. 48bits.
- D. 32bits.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 92**

The OC-3 line transfers data at which standard rate?

- A. 44.74Mbps
- B. 51.84Mbps
- C. 155.52Mbps
- D. 622.08Mbps

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 93**

Comparing with 100Base-TX, 100Base-FX has which advantage?

- A. Faster transmission speeds
- B. Ease of installation
- C. Uses a more durable cable
- D. Longer cable runs

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 94**

A workstation on the network is unable to connect to the server. Which utility should be used FIRST when troubleshooting?

- A. arp
- B. tracert/traceroute
- C. ipconfig/ifconfig
- D. netstat

**Correct Answer:** C

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 95**

Comparing with 100Base-FX, 100Base-T has which advantage?

- A. Can be used in a topology
- B. Longer cable runs
- C. Faster transmission speeds
- D. Uses a more flexible cable

**Correct Answer: D**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 96**

A virtual private network (VPN) is a computer network in which some of the links between nodes are carried by open connections or virtual circuits in some larger networks, such as the Internet, as opposed to running across a single private network. Which protocol can provide the actual encryption used over VPN?

- A. HTTPS
- B. PPTP
- C. PPP
- D. SSH

**Correct Answer: B**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 97**

Which item can provide fault tolerance to a network?

- A. First hop router redundancy
- B. QoS
- C. Increased network bandwidth
- D. Traffic shaping

**Correct Answer: A**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 98**

Which type of cabled medium is used by 100Base-TF?

- A. Ethernet implementation over fiber

- B. Ethernet implementation overThinNet
- C. Ethernet implementation over coaxial
- D. Ethernet implementation overThickNet

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 99**

Refer to the following cable standards, which has the maximum effective range at a higher cost?

- A. 1000Base-T
- B. 1000Base-SX
- C. 1000Base-CX
- D. 1000Base-LX

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 100**

Which of the following is invalid WEP key length?

- A. 32bit B. 128bit
- B. 40bit
- C. 64bit

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 101**

Who is the man?

- A. Barack Obama
- B. Pope Benedict XVI
- C. David Cameron
- D. EMAN

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation: Good Luck on your Test !!!!!

## Exam B

### QUESTION 1

A network administrator of a company discovers that the wireless network is slow and the users can see and visit shared folders unknown to them. What is the most likely cause of this issue?

- A. The wireless NIC is defective.
- B. The SSID broadcast is disabled.
- C. The user is connecting to the wrong SSID.
- D. Wireless router is improperly configured.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which command can generate the following output? Active Connections Proto Local Address Foreign Address State TCP COMPUTER1:1085 172.30.0.5:3389 ESTABLISHED TCP COMPUTER1:1089 172.30.0.5:microsoft- ds TIME\_WAIT

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

Which command can produce the following output? Interface: 172.30.0.104 - -- 0x2 Internet Address Physical Address Type 172.30.0.500-30-48-82-72- 8cdynamic 172.30.0.25400-30-48-82-65-0edynamic

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

All of the following are benefits of IPv6 (Internet Protocol version 6) EXCEPT:

- A. packet labeling.

- B. smaller header.
- C. improved authentication and security.
- D. larger subnet masks.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

Given that a workstation is connected to a star network. However, the workstation can't access the network resources. Which item will you examine first?

- A. The installed network drivers
- B. The link lights on the server network card
- C. The link lights on the network card
- D. The link lights on the switch

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

Which network component filters packets according to specifications configured for it?

- A. Hub
- B. Firewall
- C. Bridge
- D. Layer 2 switch

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Which one of the following standards has a maximum data rate of 11 Mbps (Megabits per second)?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 8**

Select the connection-oriented protocol from the following items?

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

After configuring a firewall to prevent all UDP traffic, which item below will fail to function?

- A. A network printer
- B. The Internet
- C. A VoIP device
- D. A server database application

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

Which type of WAN connection can provide the MOST bandwidth?

- A. T1
- B. X.25
- C. ISDN
- D. OC-x

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

A fully qualified domain name (FQDN), sometimes referred to as an absolute domain name, is a domain name that specifies its exact location in the tree hierarchy of the Domain Name System (DNS). In order to make sure that customers are able to type in a FQDN instead of the IP address, which protocol will be used?

- A. DNS
- B. IMAP4

- C. FTP
- D. WINS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

Networking hardware typically refers to equipment facilitating the use of a computer network. In order to permit a maximum of network traffic collisions, which hardware will you choose?

- A. Router
- B. Hub
- C. WAP
- D. Switch

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

A zero-day (or zero-hour) attack or threat is a computer threat that tries to exploit computer application vulnerabilities which are unknown to others, undisclosed to the software vendor, or for which no security fix is available. In order to prevent this attack occurring, which security mitigation technique can be used?

- A. Effective security policies
- B. Update antivirus definitions
- C. MAC filtering
- D. User awareness training

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

Select one from the following options to translate the IP address to its Mac address?

- A. nslookup
- B. netstat
- C. arp
- D. rarp

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

Which steps are required to install RAS (Remote Access Service) on Windows NT (New Technology)?

- A. Start, settings, control panel, and network
- B. Start, properties, advanced, and network
- C. System, services, network, and dial-in
- D. Control panel, network, dial-in, and remote services

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

Select one from the following options to translate the Mac address to its IP address?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

When using the ping utility, which switch pings a network device until stopped?

- A. ping -s 3 B. ping -t
- B. ping -a
- C. ping -r 3

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Which of the following fiber-optic solutions uses the longest wavelength beams?

- A. 1000Base-SX
- B. 10GBase-ER.
- C. 10GBase-LR.
- D. 10GBase-SR.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

IPConfig is a command-line tool that displays the current configuration of the installed IP stack on a networked computer using TCP/IP. Which ipconfig switch can show when obtaining the lease?

- A. /release
- B. /displaydns
- C. /all
- D. /renew

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Refer to the following network devices, which one can set limit to availability of site types that customers on a LAN have the right to use?

- A. A DNS server
- B. A proxy server
- C. A DC server
- D. A DHCP server

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

You want to connect a cable modem to a switch. Which of the following would you use?

- A. A straight-through Category 5e patch cable.
- B. A crossover Category 5e patch cable.
- C. A RG-6 co-axial cable.
- D. A serial cable.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

In a wireless G network, what is the probable reason for a wireless connection drop-off?

- A. AM Radio
- B. Cellular interference
- C. Cordless phones
- D. FM Radio

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

Which type of technology can bond wireless printer to PDA?

- A. Bluetooth
- B. IEEE 1394
- C. WiFi
- D. 802.11a

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

You work as the network technician at certways .com. A user has entered the wrong WEP (Wired Equivalent Privacy) key into a wireless device. Which of the following symptoms will occur?

- A. Data can be sent but not received.
- B. The network cannot be accessed.
- C. Data cannot be sent but can be received.
- D. The network can only be accessed using the Service Set Identifier.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 25**

You have purchased a new cable modem which was supplied without cables. You need to connect the cable modem to a 100Base-T switch. Which of the following cables would you require?

- A. A straight-through Category 5e patch cable and a serial cable.
- B. A crossover Category 5e patch cable and a RG-6 co-axial cable.
- C. A straight-through Category 5e patch cable and a RG-6 co-axial cable.
- D. A crossover Category 5e patch cable and a serial cable.

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Which type of wireless device can synchronize the computer within 3 feet (1 meter) to accomplish the synchronization?

- A. WiFi
- B. Serial
- C. Infrared
- D. Bluetooth

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Select the network device which operates according to the IEEE 1394 standard.

- A. iSCSI
- B. FireWire
- C. USB 2.0
- D. Parallel

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

What is the maximum length of a gigabit Ethernet segment using MMF (MultiMode Fiber) optic cable?

- A. 100 meters (328.08 feet)
- B. 250 meters (820.21 feet)
- C. 550 meters (1,804.46 feet)
- D. 3000 meters (9,842.52 feet)

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

Your company's web server is placed in the moisture control environment, with many power sources and a UPS to maximize the working time. Which of the following can increase the network uptime for the web server?

- A. Install an additional Router
- B. Upgrade all switches to Gigabit speed
- C. Upgrade the outbound NIC to a gigabit card
- D. Install additional NICs

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 30

After wiring your company's network in a bus topology, one computer can't visit the network. During the troubleshooting, which action will be taken first by the technician?

- A. Check the cable connections.
- B. Replace the NIC.
- C. Replace the cable.
- D. Reinstall the NIC driver.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

Which command will show the DNS information of the workstation?

- A. ipconfig /all
- B. netstat
- C. ping -t
- D. traceroute

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

During connectivity problems troubleshooting, which command will show the current NetBIOS configuration and open connections?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

A DNS server is a special type of computer on the Internet used to support the Domain Name System. Refer to the following commands, which can determine the currently assigned DNS server?

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

A router malfunctioned and was replaced with another. Each client computer on Subnet G and Subnet H is configured with a static IP (Internet Protocol) address, subnet mask, and a default gateway that allows access to the other subnet. It should not be necessary to reconfigure the clients. The configuration design is described below: Subnet G is attached to interface 0 of the router. Subnet H is attached to interface 1. Which IP (Internet Protocol) address should be assigned to interface 1?

- A. 172.17.100.2
- B. 172.16.100.255
- C. 172.17.100.25
- D. 172.16.100.1

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

Select one protocol from the following to ensure consistent time across network devices on the domain?

- A. NTP
- B. IGMP
- C. FTP
- D. RTP

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

As a network administrator, you are responsible for some remote servers in Korea. Customers are complaining



about the disconnection to the company's resources placed on those servers. Select a command to verify the servers are operating.

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

Which protocol uses UDP ports to transfer?

- A. RIPv2
- B. HTTPS
- C. TFTP
- D. HTTP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

Which of the following can be used to connect dissimilar networks?

- A. Modem
- B. Switch
- C. Gateway
- D. Bridge

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

As a network technician, you discover that you can ping a server using IP instead of FQDN, what action will you take?

- A. Ensure the MAC address is correct
- B. Ensure that the IP address is correct
- C. Ensure that WINS is configured
- D. Ensure that the DNS is configured

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

A worker of your company can't visit the shared resources located on a file server. During troubleshooting, which action will be taken first?

- A. Test the results
- B. Identify the symptoms
- C. Search the internet for the problem
- D. Document the problem

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

A Windows 2000 work station has a TCP / IP (Transmission Control Protocol / Internet Protocol) address of 169.254.12.1. Which statement describes the state of the computers TCP / IP (Transmission Control Protocol / Internet Protocol) configuration?

- A. The network administrator assigned an address of 169.254.12.1 for the network.
- B. The computer is set for DHCP (Dynamic Host Configuration Protocol), but no DHCP (Dynamic Host Configuration Protocol) server is available for the network.
- C. The computer received the address from a DHCP (Dynamic Host Configuration Protocol) server on the network.
- D. The computer received the address from a BootP (Boot Protocol) server on the network.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

When a staff of your company attempts to connect the network resource, he gets an access denied error message. During troubleshooting, which action will the technician take first?

- A. Ask the employee what has changed since yesterday
- B. Document the process
- C. Implement an action plan to resolve the issue
- D. Identify what the employee cannot access

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

How to add fault tolerance feature to a file server?

- A. Upgrade the NIC to a one Gigabit card
- B. Add an additional DNS server and modify the MX record
- C. Add an additional NIC and setup network teaming
- D. Install the latest NIC driver

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

UNIX/Linux system shares its file system with users from remote locations. Which of the following will it use to deal with remote and local printing services?

- A. The `exportfs` command
- B. The NFS client daemons
- C. The LPR
- D. The LPD

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

You are a network technician of your company, after pinging 127.0.0.1, you receive the following message: Unable to contact IP driver, error code 2. How to resolve this problem?

- A. Flush the DNS Cache.
- B. Install NetBEUI.
- C. Install the TCP/IP protocol.
- D. Release the IP Address.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

In electronics, the term crosstalk (XT) refers to any phenomenon by which a signal transmitted on one circuit or channel of a transmission system creates an undesired effect in another circuit or channel. What can prevent crosstalk?

- A. STP
- B. 1000Base-T

- C. 100Base-FX
- D. 10GBase-CX

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 47**

Some workstations are infected with a new kind of virus. If you receive the latest released patch, how will you do?

- A. Implement an action plan
- B. Wait for the virus definitions to be updated
- C. Apply the patch as quickly as possible
- D. Document the solution

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 48**

Which of the following uses both analog and digital formats?

- A. ISDN
- B. CSU / DSU
- C. DSL
- D. Modem

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 49**

The data center will be powered off for several hours. In order to make the data center continue working, which action will be taken first?

- A. Connect all the switches to a generator.
- B. Connect all the switches to a battery backup.
- C. Connect the data centers power to a generator.
- D. Connect the data centers power to a UPS.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

You have just received a phone call from a SOHO (small office home office) wireless customer, he told you that his new laptop, which is able to use both 802.11b and 802.11g, can't wirelessly connect faster than 11Mbps. Why?

- A. The wireless router is defective.
- B. The wireless router needs a firmware update.
- C. The laptop wireless card is running on a different frequency.
- D. The wireless router is 802.11b only.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

What is the purpose of a repeater?

- A. It connects two hosts together to form a small network.
- B. It extends network transmission distance by boosting the signal strength.
- C. It connects dissimilar networks and translates between different protocols.
- D. It reduces the size of a network by separating a network into two smaller network segments.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 52**

Your company has just installed a new wireless router. The users report that they can't play online games although they can access the website. What should be configured to solve this issue?

- A. Port forwarding
- B. MAC filtering
- C. SSID
- D. Antenna placement

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

The wired workstations can't connect to the file server after installing a new wireless router. How to resolve this intermittent issue?

- A. Check user permissions.
- B. Change the router's SSID.

- C. Move the router's location.
- D. Check the cable ends.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 54**

There are three Windows 2000 servers, a NetWare server, and ten Windows 2000 clients. A network technician installs NWLINK on the Windows servers and clients, yet the clients cannot access the Novell server. What step must be taken so that the clients can access the Novell server?

- A. CSNW (Client Services for NetWare) on the Windows 2000 servers
- B. CSNW (Client Services for NetWare) on the Windows clients
- C. GSNW (Gateway Services for NetWare) on the NetWare server
- D. GSNW (Gateway Services for NetWare) on the Windows clients

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 55**

The term client-server refers to a popular model for computer networking that utilizes client and server devices each designed for specific purposes. Which is a client-server based authentication software system that maintains user data in a central database?

- A. RADIUS
- B. EAP
- C. CHAP
- D. MS-CHAP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 56**

RJ45 is a standard type of connector for network cables such as those used in Ethernet networks. Select one tool from the following to physically attach a J-45 connector to a CAT5 cable.

- A. Snips
- B. Crimping tool
- C. Screwdriver
- D. Punch down tool

**Correct Answer:** B

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 57**

You are the network administrator at certways .com. certways.com has several workstations that have wireless 802.11g network adapters. Every day at around lunchtime wireless users complain of lack of connectivity. What can you do to this problem?

- A. Replace the WAP with an 802.11b WAP.
- B. Reduce the Radio Frequency Interference around the WAP.
- C. Configure the wireless workstations and the WAP to operate in ad-hoc mode.
- D. Connect the WAP directly to the network.

**Correct Answer: B**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 58**

Which of the following is associated with dynamic port bonding?

- A. Trunking
- B. 802.1q
- C. LACP
- D. Spanning Tree

**Correct Answer: C**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 59**

The function of a tone generator is to generate a tone to test:

- A. continuity
- B. signal strength.
- C. impedance
- D. signal feedback.

**Correct Answer: A**

**Section: (none)**

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 60**

RJ45 is a standard type of connector for network cables such as those used in Ethernet networks. When crimping a RJ-45 connector, which pin-out configuration is often used?

- A. IEEE 802.5
- B. T568A/B
- C. UTP
- D. STP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 61**

A network administrator is configuring a router to support a new subnet on a TCP / IP (Transmission Control Protocol / Internet Protocol) network. The subnet uses 192.168.96.0/24. The administrators company policy is to reserve the highest IP (Internet Protocol) address on each subnet for the router interface. What IP (Internet Protocol) address should the administrator assign to the router?

- A. 192.168.96.255
- B. 192.168.96.254
- C. 192.168.95.254
- D. 192.168.95.255

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 62**

If you want to transfer passwords via the internet in clear text, which authentication protocol will be used?

- A. Kerberos
- B. RADIUS
- C. CHAP
- D. PAP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 63**

Refer to the following cable standards, which one is used for Ethernet over fiber?

- A. 100Base-TX
- B. 10Base-FL
- C. 1000Base-T
- D. 1000Base-CX

**Correct Answer:** B

**Section:** (none)



**Explanation**

**Explanation/Reference:**

**QUESTION 64**

IEEE 802.11b can transmission data at up to \_\_\_\_\_ Mbps.

- A. 2
- B. 11
- C. 54
- D. 100

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

All customers in an office can't use the FQDN to connect to the servers. Why?

- A. NetBIOS is not enabled
- B. DHCP is not enabled
- C. WINS is not enabled
- D. DNS is not enabled

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 66**

A DHCP enabled computer on the network has been unplugged from the network for a week. In the mean time, several other computers were added to the network. When plugging the computer back into the network the computer is unable to reach network resources. Which of the following is the MOST likely cause?

- A. The DHCP scope needs to be redefined.
- B. The DHCP pool limit has been reached.
- C. The IP address lease has expired on the DHCP server.
- D. The DHCP server needs to be restarted.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

Which of the following wireless networks operate at the 5.0 GHz radio frequency band?

- A. Bluetooth
- B. IEEE 802.11a
- C. IEEE 802.11b
- D. IEEE 802.11g

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 68**

You are a network technician of your company. You are reported that users are occupying most bandwidth to share file applications across the T1, this results in poor voice quality. How to solve this problem?

- A. Configure traffic shaping to reduce the bandwidth available to the file sharing application.
- B. Upgrade switches to provide higher bandwidth ports for workstations and IP phones.
- C. Configure a separate VLAN for the IP phones.
- D. Install a content caching proxy at the branch to reduce inbound WAN traffic.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 69**

Dynamic Host Configuration Protocol (DHCP) is a network application protocol used by devices (DHCP clients) to obtain configuration information for operation in an Internet Protocol network. A computer on the network is configured with DHCP, it is changing IP addresses, and the network technician would like to have the same IP address. How to do?

- A. The technician needs to restart the DHCP services.
- B. The technician needs to add the MAC address to the host file.
- C. The technician needs to add the IP address to the host file.
- D. The technician needs to add the computer to the reservation list.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

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#### **QUESTION 70**

Your company uses a wired bus topology, a client unplugs the network cable connected to their computer by mistake. What will happen to the company network?

- A. It will function with minimal downtime.
- B. It will function with no downtime.
- C. It will not function properly until the wires are reconnected.
- D. It will function properly once all affected PCs are rebooted and authenticate to the network.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 71**

Which one of the following is true concerning bridges and their forwarding decisions?

- A. Bridges operate at OSI (Open Systems Interconnect) Layer 2 and use IP (Internet Protocol) addresses to make decisions.
- B. Bridges operate at OSI (Open Systems Interconnect) Layer 3 and use IP (Internet Protocol) addresses to make decisions.
- C. Bridges operate at OSI (Open Systems Interconnect) Layer 2 and use MAC (Media Access Control) addresses to make decisions.
- D. Bridges operate at OSI (Open Systems Interconnect) Layer 3 and use MAC (Media Access Control) addresses to make decisions.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 72**

You are a network technician of your company. Now you are asked to solve the desktop connection problems for a customer. Which action will you take first?

- A. Check the LEDs on the NIC.
- B. Re-install the OS.
- C. Install a new NIC.
- D. Reset the router.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 73**

In the process of troubleshooting the web server connectivity problems, after identifying that an NIC has no LEDs flashing, what will you do next?

- A. Re-install application.
- B. Re-install drivers.
- C. Check for hardware conflicts or disabled devices.
- D. Check system properties for correct caching settings.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

A network administrator installs a Linux DHCP (Dynamic Host Configuration Protocol) server. To configure the Windows clients to use the Linux DHCP (Dynamic Host Configuration Protocol) server, what must be configured on the Windows clients?

- A. Install a Linux compatible DHCP (Dynamic Host Configuration Protocol) client
- B. Enable "Obtain IP (Internet Protocol) address automatically" C. Install WINS (Windows Internet Name Service)
- C. Windows clients are not compatible with Linux DHCP (Dynamic Host Configuration Protocol) server

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 75**

Which command will generate the following output? TCP Certs03:1072 172.31.0.78:3389 Established

- A. tracert
- B. netstat
- C. ping
- D. arp

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 76**

There are six hosts in a wireless network, of which five are connected correctly, and you should allow the last one to see the wireless network without being connected. How to achieve this goal?

- A. Change the WEP key on the router.
- B. Remove the WEP key from the router.
- C. Restart the wireless router.
- D. Ensure the failed computer has the correct WEP key.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 77**

Which of the following wireless networks are compatible?

- A. IEEE 802.11a and IEEE 802.11b.
- B. IEEE 802.11a and IEEE 802.11g.

- C. IEEE 802.11b and IEEE 802.11g.
- D. IEEE 802.11a, IEEE 802.11b and IEEE 802.11g.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 78**

Coaxial cable, or coax, is an electrical cable with an inner conductor surrounded by a tubular insulating layer typically of a flexible material with a high dielectric constant. Which topology should be used if a company with five hosts moves into an office with coaxial cable?

- A. Spanning Tree
- B. Mesh
- C. Star
- D. Bus

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 79**

In order to connect a WAN to a LAN, which equipment is applicable?

- A. Basic router
- B. Repeater
- C. Basic switch
- D. Bridge

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 80**

A SOHO network has just installed a basic router, the computers connected to this router can't obtain an IP address after installation. Do you know what is not configured properly?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

The user has connected a laptop to a small office / home office (SOHO) router which connects to a cable modem. The laptop can't gain an IP address. The user discovers that the link status LED is not illuminated on the router or laptop. Why?

- A. A wrong IP is configured on the router.
- B. DHCP is not enabled on the router.
- C. There is a bad cable or wrong cable type.
- D. There is a bad port on the cable modem.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

As a network technician, you must know the following protocols well, can you tell me which one is applicable to email transmission?

- A. SFTP
- B. SMTP
- C. SCP
- D. SNMP

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 83**

During packet encryption over the Internet, which two of the protocols below will be used? (Select TWO).

- A. SMTP
- B. HTTPS
- C. SMNP
- D. SSH

**Correct Answer: BD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 84**

IrDA uses \_\_\_\_\_.

- A. the 2.4 radio frequency band

- B. the 2.5 radio frequency band
- C. the 5.0 radio frequency band
- D. infrared light beams

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 85**

If you want to convert an IP address to a MAC address, which protocol will be help to you?

- A. RARP
- B. DHCP
- C. NTP
- D. ARP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 86**

Given the addressing scheme 10.2.10.x, with a subnet mask of 255.255.255.0, your company wants a secure and isolated sales system. You are asked to segregate network traffic due to security requirements. How to do?

- A. Changing the IP scheme to class C addresses
- B. Creating a new subnet for this system
- C. Implementing a dedicated broadcast network
- D. Implementing a dedicated multicast network

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 87**

The IPSec (Internet Protocol Security) protocol suite can secure network transmissions by:

- A. increasing encryption to a 128-bit cipher.
- B. encapsulating the data payload.
- C. double encrypting the data payload.
- D. adding a second password.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 88**

Refer to the following network components, which one is able to enlarge the range limitation of Ethernet networks?

- A. IDS
- B. Repeater
- C. Firewall
- D. Load balancer

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 89**

Which command below will display the NETBIOS name of another workstation through its IP address?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 90**

Tom is a junior network administrator. He configures a token ring network in a physical star, logical ring topology. He connects the end nodes into a 100BASE-TX network hub. Users report that they can't access network.

Which device can replace the hub?

- A. 10BASE-T hub
- B. Multistation Access Unit (MAU)
- C. Bridge
- D. Router

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

Which type of connector can connect a PC to a dial-up modem?

- A. RS-232
- B. RJ-45



- C. RG-6
- D. ST

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 92**

What protocol can be used for file transmission between two systems? (Select TWO).

- A. RIP
- B. SNMP
- C. FTP
- D. SCP

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 93**

Look at the following options carefully, then select three protocols used for email traffic. (Select THREE)

- A. IMAP4
- B. TFTP
- C. SMTP
- D. POP3

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 94**

In which situation would Omni antennas be BEST suited? (Choose Two.)

- A. To connect hosts to Wireless Access Points
- B. To enable roaming access for laptop users
- C. To bridge two Wireless Access Points
- D. Outdoors

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 95**

The IP address ranges below are summarized into a single route for redistribution into the network core:

192.168.0.0 /24

192.168.1.0 /24

192.168.2.0 /24

192.168.3.0 /24

Which IP summary address can provide the only listed network ranges?

A. 192.168.0.0 /16

B. 192.168.0.0 /23

C. 192.168.0.0 /22

D. 192.168.0.0 /21

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 96**

Comparing with static routing, dynamic routing has which advantage?

A. Improves network speed

B. Less network overhead

C. Scales to large networks

D. More secure

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

A technician just installed a new NIC (Network Interface Card) in a computer and attached a cable to connect the computer to a hub. Assuming the NIC (Network Interface Card) is functioning correctly and the network is up, which of the following will the technician see on the NIC (Network Interface Card)?

A. The amber light is flashing occasionally and the green light is lit steadily.

B. The amber light is flashing continually, the green light is lit steadily, and neither light will be on until data is transferred.

C. The amber light is lit and steady and the green light is flashing continually.

D. The amber light is flashing occasionally, the green light is lit steadily, and neither light will be on until data is transferred.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 98**

The following presented route is found in the IP routing table when analyzing the contents of this table in a

router: PrefixNext-Hop IPInterface  
192.168.1.0 /24172.16.31.1Ethernet0  
192.168.2.0 /24172.16.31.1Ethernet0  
172.16.31.0 /24Directly ConnectedEthernet0 0.0.0.0/0172.16.31.2Ethernet0 When sending a packet from 192.168.1.4 to 192.168.3.4, what will happen?

- A. The packet will be dropped as there is no matching route in the IP routing table to reach the destination network
- B. An ICMP network unreachable message will be sent to 192.168.1.4
- C. The packet will be forwarded to 172.16.31.2
- D. The packet will be forwarded to 172.16.31.1 since the source IP address is in the 192.168.1.0 /24 range

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 99**

Your company network has 40 computers which are in the same private IP subnet. And your boss has ordered an Internet connection from the Local ISP. Your company has a static public IP and wants to allow all 40 hosts to access the Internet. How to achieve this objective?

- A. The use of static NAT will allow access to the Internet.
- B. PAT will allow access to the Internet.
- C. DHCP will assign addresses capable of accessing the Internet.
- D. Supernetting will allow access to the Internet.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 100**

While at a meeting, all users are able to connect to the wireless network except one user. Why?

- A. The wireless network card is having hardware failures.
- B. The wireless device is not broadcasting.
- C. There was some interference with the wireless signal.
- D. The MAC address of the network card changed.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## Exam C

### QUESTION 1

In order to permit 64 servers access, a new segment will be created, which subnet can achieve this goal while conserving IP addresses?

- A. 192.168.1.0/24
- B. 192.168.1.0/26
- C. 192.168.1.0/23
- D. 192.168.1.0/25

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which dotted decimal address is the correct conversion of the following binary string?  
11000000.10101000.01100011.00011010

- A. 192.168.99.26
- B. 192.168.99.34
- C. 192.168.101.26
- D. 192.168.101.34

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

If you are asked to reduce the multicast flooding on the layer2 switch, which protocol will you use?

- A. ICMP
- B. SNMP
- C. IGMP
- D. ARP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

What do the first three sets of hexadecimal digits of a MAC represent?

- A. Organizationally Unique Identifier (OUI)
- B. Security Set Identifier (SSID)
- C. Burned-In Address (BIA)

D. The Device ID

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

Refer to the following protocols, which one is a link-state routing protocol using area0?

- A. OSPF
- B. IS-IS
- C. EIGRP
- D. BGP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

Which type of notation contains 221.17.101.223/28?

- A. Port Number
- B. CIDR
- C. ARP
- D. DNS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Computer A can connect with computers on Network A, but cannot connect with computers on Network B. Which of the following solutions will allow communication between Network A and Network B? Computer A: Computer B:

IP: 123.132.192.50 IP: 200.201.202.52 Subnet Mask: 255.255.240.0 Subnet Mask: 255.255.255.0 Default Gateway: 200.201.202.1 Default Gateway:

200.201.202.1 Network A: Network B: Network: 123.132.192.0 Network:

200.201.202.0 Subnet Mask: 255.255.240.0 Subnet Mask: 255.255.255.0 Router A: Router B: IP: 123.132.192.1 IP: 200.201.202.1

- A. Change the default gateway of Computer B to 123.132.192.1 Page 43 of 142
- B. Change the default gateway on Computer A to 123.132.192.1
- C. Change the subnet mask for Computer A to 255.255.255.0
- D. Change the subnet mask for Computer B to 255.255.240.0

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

Which of the following commands can display the number of server connections open on a client?

- A. netstat
- B. arp
- C. dig
- D. nslookup

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

For a new wireless network, which wireless encryption is the highest level that can be run?

- A. TTL
- B. WPA2 TKIP
- C. WPA2 AES
- D. WEP

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

Which one of the following communication protocols does a UNIX system primarily rely on?

- A. IPX / SPX (Internetwork Packet Exchange / Sequence Packet Exchange)
- B. Kerberos
- C. TCP / IP (Transmission Control Protocol / Internet Protocol)
- D. NetBEUI (Network Basic Input / Output Extended User Interface)

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

An access point in a wireless network receives link margin values from associated access points. A wireless access points beacon frame contains which data below?

- A. hannel and WEP key

- B. P and MAC address
- C. SID and WEP key
- D. SSID and MAC address

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

Which two protocols combine the PPTP? (Select TWO).

- A. PPP
- B. TCP/IP
- C. PPPoE
- D. TCP

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

Given that wireless Internet access is located in an open warehouse environment. And you discover that different locations have different signal strengths. How to increase the signal strength consistency?

- A. Change the antenna placement.
- B. Enable traffic shaping.
- C. Broadcast the SSID.
- D. Change the encryption method.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

A company has a hybrid network composed of Mac and Windows servers accessed by Mac, Linux and Windows clients. A department wants to use their Windows XP desktops to access the Macintosh printer. Which action should be taken by the administrator to allow the Windows XP clients to access that printer?

- A. Install services for Macintosh Gateway on Windows server
- B. Install the NetBIOS protocol on the Mac server.
- C. The AppleTalk protocol must be installed on the Windows machine.
- D. Install TCP/IP on the Macintosh Printer.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

As a network administrator, you are tasked with hooking three desktop computers to a current network. However, only one network connection is applicable. Which of the following items will help you complete this task?

- A. Smart jack
- B. Switch
- C. Modem
- D. Repeater

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

You have a small network with five computers, all of which are connected to a central switch and access shared file and print on a single server. However, one computer can't connect to the network, while the other four can connect properly. Why?

- A. The NIC has failed.
- B. The switch has failed.
- C. The server has failed.
- D. The computers OS needs to be updated.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which of the following is a valid MAC address?

- A. 192.168.1.32  
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- B. 225.225.225.224
- C. 00-04-23-D2-EE-H4
- D. 00-04-23-D2-EE-F4

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

A printer which is connected to the network is placed in a SOHO environment. The computers can ping the



printer directly using TCP/IP and they could print the day before. However, today the computers are unable to print. Do you know which configuration can solve this problem?

- A. Set up the printer on a public IP address.
- B. Configure the printer to use an APIPA.
- C. Place the printer on a static IP address.
- D. Change the printer setting to use multicast.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

Given that the IP address and default gateway are both on the 192.168.1.0/24. The computer can transmit files locally to other devices, but it can't use a wireless access point to connect to the Internet. Why?

- A. The computers gateway is not routing to a public IP address.
- B. The computer is using an invalid IP address.
- C. The computer is not using a private IP address.
- D. The computer and the gateway are not on the same network.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

Which of the following commands does a network administrator use to verify the mail server addresses for a remote domain?

- A. nslookup/dig
- B. nbtstat
- C. tracert/traceroute
- D. netstat

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 21**

Which type of LAN will use CAT5 UTP?

- A. 10GBase-SR
- B. 100Base-TX
- C. 100Base-FX
- D. 1000Base-T

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

If you want to combine multiple connections into one logical connection to increase the bandwidth for network transmission, which technology will you use?

- A. Supernetting
- B. Broadcasting
- C. Bonding
- D. Traffic shaping

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

You are working as a technician at certways .com. A Mac OS X 10.3 user has requested some assistance with a network connectivity issue that he has. The Mac OS uses Kerberos to access a kerberized service provided by a Mac OS X server 10.3 but the user experiences an authentication failure when he tries to do this. Which of the following steps might resolve the issue?

- A. Install Kerberos client software for Mac OS X 10.3 on the user's computer.
- B. Synchronize all Kerberos principal's clocks using a network time server.
- C. Ensure that the IP address of the user's computer to allow the user to access the service.
- D. All of the above.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

You work as the network administrator at certways.com. You are sent to one of certways's branch offices to investigate a network problem. The network at the branch office consists of twenty Windows XP workstations that are wired to a switch. The switch is connected to a router for Internet access. One of the users at the branch office reports that she is unable to access the Internet. All other users can access the Internet. Which of the following items should you check to solve the problem?

- A. The network card of the problematic machine, the port on the switch that uplinks to router, and the patch cable from the problematic machine to the switch.
- B. The patch cable from the problematic machine to the switch, the port on switch that the problematic machine is plugged into, and the external interface on the router.
- C. The network card of the problematic machine, the port on the switch that the problematic machine is plugged into, and the patch cable from the problematic machine to the switch.
- D. The port on the switch that the problematic machine is plugged into, the network card of the problematic machine, and the uplink port on the switch.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

The MAC address F2-A1-23-BC-D3-41 consist of a manufacturer ID and a station ID. Which 3 bytes represents the station identifier?

- A. F2-A1-23
- B. A1-23-BC
- C. 23-BC-D3
- D. BC-D3-41

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

In the process of troubleshooting network data transmission issue, which command can determine the location of the packet loss?

- A. arp
- B. ipconfig
- C. traceroute
- D. ping

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Which tool will be used when placing a RJ-45 connector on a CAT5 cable?

- A. Razor knife
- B. Pliers
- C. Polishing kit
- D. Snips

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

Which table will be used by a router to determine the next hop IP address while forwarding a packet?

- A. The BGP table
- B. The routing table
- C. The ARP table
- D. The EIGRP adjacency table

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

In computer networking, a Media Access Control address (MAC address) is a unique identifier assigned to most network adapters or network interface cards (NICs) by the manufacturer for identification. Which of the following MAC address is valid for a workstation?

- A. 131.44.32.255
- B. 00:08:38:05:B5:F4
- C. 05:14:K9:07:B2:M4
- D. FFFF.FFFF.FFFF

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 30**

What is the objective of IDS?

- A. Monitors inbound and outbound network connections in order to identify suspicious activity.
- B. Controls inbound and outbound connections in a network device by command lines.
- C. Monitors inbound and outbound network connections in order to prevent suspicious activity.
- D. Controls inbound and outbound connections to prevent unauthorized access to the Internet.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 31**

If an authentication protocol is being implemented that uses a private key and a session key, the protocol is:

- A. L2TP (Layer 2 Tunneling Protocol).
- B. Kerberos
- C. IPSec (Internet Protocol Security).
- D. PPTP (Point-to-Point Tunneling Protocol).

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

How to differ dynamic routing from static routing?

- A. Dynamic routing is used by a WINS server.
- B. Static routing is best used in large scalable networks.
- C. Static routes are added automatically.
- D. Dynamic routes are added automatically.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which statement best describes the routing convergence time?

- A. Time required for an IDS to detect suspicious software
- B. Time required by protocols to update their forwarding tables after changes have occurred
- C. Time required by switch ports to update their link status and transition to the forwarding state
- D. Time required for a VPN connection to occur

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

At which layer of the OSI reference model does data encryption occur?

- A. The Transport Layer
- B. The Session Layer
- C. The Presentation Layer
- D. The Application Layer

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

During network issue troubleshooting, which action will be taken first?

- A. Record what steps should be taken to resolve the issue.

- B. Record the solution in the appropriate logs for future use.
- C. Ask the user who reported the issue to explain the symptoms in detail.
- D. Ask the user who reported the issue what past documentation they have.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 36**

Layer 2 is the data link layer of the OSI model. Observe the following items carefully, which one will be discovered in a layer2 switch?

- A. DNS zones
- B. Routing protocols
- C. SSID settings
- D. VLAN settings

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

Dynamic Host Configuration Protocol (DHCP) is a network application protocol used by devices (DHCP clients) to obtain configuration information for operation in an Internet Protocol network. Which two characteristics belong to a DHCP server? (Select TWO)

- A. Dynamic IP addressing
- B. Secure shell connections
- C. Static IP address reservations
- D. Resolving IP addresses to canonical names

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

Your company has a secure network room with restricted access to a workstation that is located in the room. Which policy can identify intrusions?

- A. Backup policy
- B. Audit policy
- C. Internet fair use policy
- D. User training policy

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Select one protocol from the following to describe a connectionless state without using acknowledgements?

- A. NTP
- B. UDP
- C. TCP
- D. POP3

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

The command ping uses which of the following protocols?

- A. IGMP
- B. TFTP
- C. ICMP
- D. SMTP

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

Which of the following statements regarding the OSI reference model is TRUE?

- A. The Transport Layer of the OSI model defines several standard network services, as well as the interface between the network and the application.
- B. The Session Layer of the OSI model is responsible for establishing, maintaining, and breaking sessions.
- C. The Presentation Layer of the OSI model defines the choice of protocols, and provides error recovery and flow control.
- D. The Application Layer of the OSI model converts the data from the lower layers into a format that the upper-layer processes require.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Computer networks use a tunneling protocol when one network protocol (the delivery protocol) encapsulates a different payload protocol. Encryption is especially important in wireless communications. Refer to the following

protocols, which two are applicable to tunneling and encryption purposes? (Select TWO).

- A. L2TP
- B. IPSec
- C. SLIP
- D. PPPoE

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

A customer is complaining about the disconnection to the Internet, but all other users can connect to the network. Which action will be taken next after obtaining all the information about the users workstation?

- A. Perform a traceroute to that users workstation.
- B. Ping the users workstation to verify network connectivity.
- C. Replace the NIC in the users workstation.
- D. Go to the users workstation and do an ipconfig.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 44

On a switched Ethernet network that is operating perfectly, what is the state in which a user will find the activity LED (Light Emitting Diode)?

- A. Lit solid
- B. Off
- C. Rhythmically blinking
- D. Periodically blinking

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 45

You are reported that a user can't access any website, but he can access the network shares and their email. How to resolve this problem?

- A. Traceroute to any website to see where the disconnection is occurring.
- B. Use the ping command to see if the workstation can access the DHCP server.
- C. Use the route add command to add static routes to see if the routes are an issue.
- D. Perform the ipconfig command to verify settings on that workstation are correct.



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

In order to present the active routes on a workstation, which tool will be deployed?

- A. arp ping
- B. nbstat
- C. arp -a
- D. netstat -r

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

All users are unable to access the network. In order to solve this issue, which action will you take first?

- A. Use the ping command to verify connection to the DHCP server.
- B. Use the routeadd command to see if static routes can be added.
- C. Use the arp command to check network settings.
- D. Use the arp command to verify connections to the network.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

Identify the Windows utility being used given the following output: Proto Local Address Foreign Address State  
TCP JDoe:epmap JDoe.jdoe.com:0 Listening

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

Two network devices are connected by a crossover cable. Which pins below are different between them?

- A. Pin1, Pin2, Pin3, Pin6
- B. Pin6, Pin7, Pin8, Pin1
- C. Pin4, Pin5, Pin1, Pin2
- D. Pin4, Pin5, Pin7, Pin8

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 50**

After creating a connection, which TCP connect scanner is always configured for normal data traffic?

- A. ACK
- B. TCP
- C. RSH
- D. SYN

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 51**

You are working as a senior technician at ass4sure.com. One of the trainees asks you to clarify at which OSI (Open Systems Interconnect) layers a packet filtering firewall operates. What will your answer be?

- A. Network and Data Link Layers.
- B. Network and Transport Layers.
- C. Transport and Session Layers.
- D. Physical and Data Link Layers.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 52**

Prior to crimping a connector to a UTP/STP cable, which tool will be used?

- A. Punch down tool
- B. Cable stripper
- C. Cable tester
- D. Multimeter

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

Encryption is the conversion of data into a form, called a ciphertext, that cannot be easily understood by unauthorized people. What can vary the encryption key on a user's session after a set period of time?

- A. TKIP
- B. AES
- C. WEP
- D. RADIUS

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

A network administrator is troubleshooting a wireless LAN (Local Area Network) that is experiencing trouble with interference. A scan of the wireless network reports that there are two WAPs (Wireless Access Point) from different companies within range of the LAN (Local Area Network). The two WAPs (Wireless Access Point) have different SSIDs (Service Set Identifier) than the LANs (Local Area Network) WAP (Wireless Access Point), but the same channel. Also, the WEP (Wired Equivalent Privacy) appears to be the same on all WAPs (Wireless Access Point). What should the network administrator do to cut down on the interference of the wireless clients on the LAN (Local Area Network)?

- A. Change the LANs (Local Area Network) WAP (Wireless Access Point) to the same SSID (Service Set Identifier) as the other two WAPs (Wireless Access Point)
- B. Change the WEP (Wired Equivalent Privacy) settings on the two WAPs (Wireless Access Point) to be different than that of the LANs (Local Area Network)s, WAPs (Wireless Access Point), and WEPs (Wired Equivalent Privacy) settings
- C. Change the LANs (Local Area Network) WAP (Wireless Access Point) channel to a different channel than the other two WAPs (Wireless Access Point)
- D. Change the LANs (Local Area Network) WAPs (Wireless Access Point) WEP (Wired Equivalent Privacy) settings to be different than that of the other two WAPs (Wireless Access Point)

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

When the connection is created, which TCP connect scanner will be always set for normal data traffic?

- A. ACK
- B. TCP
- C. RSH
- D. SYN

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

Prior to crimping a connector to a UTP/STP cable, which one of the following tools is applicable?

- A. Punch down tool
- B. Cable stripper
- C. Cable tester
- D. Multimeter

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 57**

Dynamic Host Configuration Protocol (DHCP) is a network application protocol used by devices (DHCP clients) to obtain configuration information for operation in an Internet Protocol network. A new DHCP server has been implemented. A technician checks some computers' IP addresses and the IP addresses are not in the scope but they can reach network resources. The other computers can obtain the IP addresses issued by the DHCP server. Why?

- A. The DHCP server needs to be restarted
- B. The computers are still set with a static IP address
- C. The computers need to be restarted
- D. The computers network cards need to be upgraded

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

Wireless Application Protocol (commonly referred to as WAP) is an open international standard for application layer network communications in a wireless communication environment. Which of the following would be installed on a workstation to connect to a WAP?

- A. USB hub
- B. Wireless NIC
- C. Software firewall
- D. Modem

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

Encryption is the conversion of data into a form, called a ciphertext, that cannot be easily understood by unauthorized people. What can vary the encryption key on a user's session after a set period of time?

- A. TKIP
- B. AES
- C. WEP
- D. RADIUS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 60**

Which two network features will slow or limit traffic to improve the performance of other kinds of traffic? (Select TWO).

- A. Traffic shaping
- B. High availability
- C. Load balancing
- D. QoS

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 61**

A network administrator of a 50 machine network is receiving complaints that some users are losing connectivity to network services. On inspection it is discovered that the IP (Internet Protocol) addresses for the subnet of 255.255.255.128 have been exhausted. Which of the following explains the problem?

- A. The subnet range needs to be changed to 255.255.255.0 to accommodate more users.
- B. A DNS (Domain Name Service) record has been deleted for the DHCP (Dynamic Host Configuration Protocol) server path and must be re-established.
- C. The network router has lost its connection to the DHCP (Dynamic Host Configuration Protocol) server and must be rebooted.
- D. A rogue Windows DHCP (Dynamic Host Configuration Protocol) server is running a man-in-the-middle attack and has exhausted the IP (Internet Protocol) stack.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 62**

Select the most appropriate network technique to describe an active/passive server cluster in which only one server is active and dealing with requests.

- A. Traffic shaping

- B. QoS
- C. Load balancing
- D. High availability

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 63**

Given that Switch A has two ports connected to switch B. Which characteristic of switch will allow ports to be combined and managed as a single entity?

- A. trunking
- B. port mirroring.
- C. VLAN
- D. spanning tree.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 64**

An ICS (Internet Connection Sharing) network has been setup as follows: Clients 1 and 2 cannot access the Internet. What is the problem?

- A. Windows 98 Second Edition does not support ICS (Internet Connection Sharing).
- B. A second NIC (Network Interface Card) needs to be installed on the ICS (Internet Connection Sharing) host.
- C. Windows 95B does not support ICS (Internet Connection Sharing).
- D. A second NIC (Network Interface Card) needs to be installed on Clients 1 and 2 and the ICS (Internet Connection Sharing) host.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 65**

Wired Equivalent Privacy (WEP) is a deprecated algorithm to secure IEEE 802.11 wireless networks. Dynamic Host Configuration Protocol (DHCP) is a network application protocol used by devices (DHCP clients) to obtain configuration information for operation in an Internet Protocol network. A wireless network is configured with WEP and DHCP. The client workstation is set the channel and SSID. Which action will be taken next to accomplish this configuration?

- A. Enter an IP address for the client.
- B. Change the SSID
- C. Enter the username and password.
- D. Enter the encryption key.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 66**

10GBase-EW connection could transmit using a repeater at which maximum distance?

- A. 40,000 meters (131,233 feet)
- B. 10,000 meters (32,808 feet)
- C. 20,000 meters (65,616 feet)
- D. 80,000 meters (262,467 feet)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

A workstation with a static IP address can print and authenticate to a server, but cannot browse to [www.comptia.org](http://www.comptia.org). Which item is the FIRST to troubleshoot?

- A. WINS server settings
- B. The physical connection
- C. User account on server
- D. DNS server settings

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

Choose the authentication protocol from following to negotiate access to the network by use of certificates?

- A. Kerberos
- B. PAP
- C. EAP-TLS
- D. CHAP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 69**

All of your company's workstations have a static IP address. A newly installed workstation can't connect to the

company intranet sever through the internet browser. The network administrator can ping the IP address of the intranet server. Which of the following is at fault?

- A. VLAN
- B. IP address on the new workstation.
- C. DNS server setting on the client.
- D. gateway setting on the client.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 70**

There are connection problems at multiple locations while using the RJ-45 port on the laptop. The network technician plans to verify whether the CAT5e cable causes this problem. Which tool will be used by the technician to solve this problem?

- A. Cable tester
- B. Cable stripper
- C. Toner probe
- D. Protocol analyzer

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

Which network monitoring utility will be used by a network administrator to make sure that there are no major collisions occurring on the network?

- A. Network access control software
- B. Discovery and connectivity software
- C. Antivirus and anti-spyware software
- D. Interface counters

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 72**

Your company has just installed three large servers in a rack. However, the network becomes unstable and there are other issues across all servers in the rack. Network bandwidth and power resource are rich enough. Which of the following items will be examined next?

- A. Temperature monitor
- B. Cable tester



- C. Multimeter
- D. Certifier

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 73**

A network administrator wants to terminate a CAT5e cable with one end 568A and the other end 568B, after that, this cable will become:

- A. a straight-through cable.
- B. a crossover cable.
- C. non-functional.
- D. capable of 10GBaseT.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 74**

What is the objective of using UDP protocol?

- A. Uploading files to a FTP server
- B. Video conferencing
- C. Typical user LAN traffic
- D. Server to server connections

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 75**

In the process of troubleshooting the phone service at a site, the technician discovers that there is no dial tone present after testing one of the connections on the 66 block . Which tool is the best to test the connectivity at the boundary point?

- A. Cable tester
- B. Toner probe
- C. Butt set
- D. Multimeter

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 76**

Which method is the most economical to implement a separate network for guests arriving onsite?

- A. Install a VPN.
- B. Create a VLAN.
- C. Install a firewall.
- D. Implement trunking.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 77**

In order to assure fault tolerance in the event of a disk controller failure, which level of RAID (Redundant Array of Independent Disks) should be implemented?

- A. 0
- B. 1
- C. 3
- D. 5

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 78**

Which method is the most economical to apply fault tolerance feature to a server?

- A. Install a single fiber NIC.
- B. Install two NICs for teaming.
- C. Install two switches.
- D. Install a single router.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

If you want to make a straight-through CAT5 cable, one end of the CAT5 cable is punched down on the basis of the 568B standard. Which standard will be used by the other end?

- A. 568B
- B. 568A

- C. RJ-11
- D. RJ-45

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

Refer to the following ports, which one can transfer configuration files from the switch?

- A. UDP 69
- B. TCP 69
- C. UDP 67
- D. TCP 110

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

An offsite user is trying to print a report. The report appears to print fine on the spooler, but the job never reaches the printer locally. Why?

- A. The job is printing at the default printer in the office.
- B. The connection speed is inadequate.
- C. The printer drivers need to be re-installed.
- D. A local printer is not installed.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

Your company wants to configure newsfeeds on the network to provide internal company information. Which port can allow newsfeeds to pass- through?

- A. 143
- B. 22
- C. 119
- D. 25

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 83**

Tom is an employee of the HR department in your company. Today, he is transferred to the accounting department. However, he can use the HR department printer instead of the Accounting department printer. Why?

- A. Wrong DNS
- B. Wrong host file
- C. Wrong gateway
- D. Wrong VLAN

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 84**

A computer on the network is able to access file shares from other computers on the LAN (Local Area Network) but not on the LANs (Local Area Network) server. The computer can access other services on the server. What is the problem?

- A. The computer did not log on to the servers domain.
- B. The computer has the wrong gateway.
- C. The computer does not have DNS (Domain Name Service) installed.
- D. The computer has the wrong subnet mask.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 85**

Alex is a network administrator of his company, he has not received any response from the workstation after attempting to ping the workstation via network name. This workstation is part of the domain and can access the internet. What is the most likely source of this problem?

- A. Wrong WINS on the workstation
- B. Wrong host name on the workstation
- C. Incorrect IP address assigned to the workstation
- D. Faulty cable on the workstation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 86**

What is the most likely cause of the discontinuous disconnection of wireless 802.11g Internet?

- A. Incandescent light
- B. Cell phone
- C. Cordless phone
- D. Infrared printer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 87**

In computer networking, CSMA/CA belongs to a class of protocols called multiple access methods. CSMA/CA stands for: Carrier Sense Multiple Access With Collision Avoidance. Which IEEE standard uses CSMA / CA?

- A. 802.5
- B. 802.2
- C. 802.3
- D. 802.11

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 88**

Which protocol can help you manage a remote server safely?

- A. SFTP
- B. SSH
- C. Telnet
- D. HTTP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 89**

On a network segment, which equipment can increase the signal strength?

- A. NIC
- B. Repeater
- C. Modem
- D. Transceiver

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 90**

You are working as a network technician at certways.com. The computer labs are still using a physical bus network. Which of the following could cause a complete network failure on the computer labs network?

- A. One of the networked workstations is powered off.
- B. One of the networked workstations is using the DLC (Data Link Protocol).
- C. A terminator has been removed from the end of the bus trunk cable.
- D. A terminator has been installed on the end of the bus trunk cable.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

A workstation on a TCP / IP (Transmission Control Protocol / Internet Protocol) network cannot log on to a server located at another subnet. Which of the following tasks will help determine the cause of the problem?

- A. Ask a user on a remote segment to try to connect, replace the NIC (Network Interface Card) in the workstation, and run nbtstat at the command prompt
- B. Ask a user on the same segment to try to connect, ask a user on a remote segment to try to connect, and ping the server
- C. Ask a user on the same segment to try to connect, ask a user on a remote segment to try to connect, and run nbtstat at the command prompt
- D. Ping the server, replace the NIC (Network Interface Card) in the workstation, and run nbtstat at the command prompt

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

If you want to permit different broadcast domains to communicate with each other, which network component will you use to connect them?

- A. Multilayer switch
- B. Hub
- C. Bridge
- D. Layer 2 switch

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

Your customer complains about the disconnection to the network resources. Which tool will you use to solve this problem?

- A. Cable tester
- B. Butt set
- C. Certifier
- D. TDR

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 94**

A network administrator discovers that many wireless client machines often lose network connectivity in the secure wireless office. The wired clients never have downtime. The administrator also discovers that the wireless clients all lose connectivity from the network at the same time, but can still see each other. How to solve this problem?

- A. Check the WEP settings on the clients.
- B. Check the connection from the WAP to the network.
- C. Change the SSID on all of the clients.
- D. Check the connection from the WAP to the wired clients.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 95**

According to the following descriptions about Pins colors, identify which wiring standards is used?

Pin 1 White Orange Pin 2 Orange Pin 3 White Green Pin 4 Blue Pin 5 White Blue Pin 6 Green Pin 7 White Brown Pin 8 Brown

- A. Crossover cable
- B. IEEE 1394
- C. 568B
- D. 568A

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 96**

VoIP uses which two of the following protocols? (Select TWO).

- A. SIP
- B. SSH

- C. RDP
- D. RTP

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

Which of the following uses on Bindery Services or Novell Directory Services (NDS) for name resolution?

- A. TCP/IP
- B. IPX/SPX
- C. NetBEUI
- D. AppleTalk

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 98**

Your company has four branch offices. You are asked to configure each office with 12 computers and allow each office to expand to 16 computers. Which subnet mask will help you complete this task?

- A. 255.255.255.248
- B. 255.255.255.240
- C. 255.255.255.16
- D. 255.255.255.224

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

There is one headquarter and ten branch offices in your company. You are the network technician of your company. You are asked to accomplish the following task: The branch offices mustn't communicate with each other, but they must communicate with headquarter. Which network topology will you deploy?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 100**

You are a senior network administrator at certways.com. A trainee wants to know which of the following statements that is correct, with regard to TCP and UDP.

- A. TCP is connection-oriented, UDP is reliable.
- B. TCP is connectionless, UDP is unreliable.
- C. TCP is connection-oriented, UDP is unreliable.
- D. TCP is connectionless, UDP is reliable.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## Exam D

### QUESTION 1

Network layer firewalls, also called packet filters, operate at a relatively low level of the TCP/IP protocol stack, not allowing packets to pass through the firewall unless they match the established rule set. Which type of traffic can't be filtered by a network layer firewall?

- A. SMTP traffic
- B. ICMP messages
- C. HTTP traffic
- D. Email sender verification

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Which type of cable can connect two switches in two different wiring closets?

- A. 568A
- B. Crossover
- C. Rollover
- D. Loopback

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

Comparing the following Ethernet technologies, then select one with the shortest transmission distance.

- A. 100Base-T
- B. 10GBase-T
- C. 10GBase-SR
- D. 10Base-T

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

Modal distortion is a problem with which type of media?

- A. Fiber optic cable
- B. Coaxial cable
- C. UTP (Unshielded Twisted Pair)

D. STP (Shielded Twisted Pair)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

Select two IEEE designations used for the spanning tree protocol.(Select TWO).

- A. 802.1n
- B. 802.1w
- C. 802.1p
- D. 802.1d

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

After plugging a host into a switch port, a user discovers that he can't visit server resources on the network. Why? (Select TWO).

- A. The computer is connected to an incorrect PoE port.
- B. The appropriate credentials have not been supplied for network access.
- C. The spanning tree protocol has locked down the port.
- D. The computer is connected to a port in the wrong VLAN.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Which protocol uses a flexible addressing system that makes it easier in building large-scale, heterogeneous networks?

- A. TCP / IP
- B. ICMP
- C. AppleTalk
- D. NetBEUI

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

Your company has just deployed three access points to cover the whole wing of the building. Each access point has a wired connection and the wireless transmission uses 802.11g. Which channel is for the access points?

- A. Channels 1-6-11
- B. Channels 2-4-6
- C. Channels 1-3-5
- D. Channels 7-11-1

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Your company has just deployed three access points to cover the whole wing of the building. Only one access point has a wired connection and the wireless transmission uses 802.11g. Which channel is for the access points?

- A. Channels 5-5-5
- B. Channels 1-3-5
- C. Channels 7-11-1
- D. Channels 6-6-6

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

A company's disaster recovery plan requires that a hot site be maintained for fault tolerance. Which of the following would achieve this goal?

- A. Data is backed up on tape and stored at an offsite location.
- B. An exact duplicate of the infrastructure is stored onsite. An exact duplicate of the infrastructure is mirrored offsite.
- C. An exact duplicate of the infrastructure is mirrored offsite.
- D. Data is backed up on a second hard drive in a server.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

The current wireless infrastructure has just deployed new wireless access points. WPA 2 is the security policy. Which encryption method is compatible with the previous deployed access points?

- A. AES
- B. CHAP

- C. 3DES
- D. TKIP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

Given that one network shares its office space with another, and both the networks have an 802.11g access point. What can prevent mutual interference?

- A. Channel
- B. Encryption type
- C. WEP key
- D. Pre-shared key

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

Which protocol can help transfer files to a network device safely?

- A. SCP
- B. TFTP
- C. SNMPv2
- D. FTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

NetBIOS is an acronym for Network Basic Input/Output System. A network administrator adds a router to create a new subnet. Which network service requires configuration to accommodate NetBIOS on the new network?

- A. Dynamic Host Configuration Protocol (DHCP)
- B. Network News Transport Protocol (NNTP)
- C. Windows Internet Name Service (WINS)
- D. Network Time Protocol (NTP)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

If you want to send the encrypted login credentials over the network, which protocol will be used?

- A. FTP
- B. Telnet
- C. SSH
- D. HTTP

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

Select a network component to proactively diagnose and fix security attacks.

- A. SSL
- B. IDS
- C. VPN
- D. IPS

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

A Windows user wants to access a share hosted on a Mac OS X server, but the server is not visible on the network. What must the network administrator enable on the Mac OS X server to allow Windows users to connect to shares?

- A. AFP (Apple File Protocol)
- B. VPN (Virtual Private Network)
- C. Windows file and print sharing
- D. DHCP (Dynamic Host Configuration Protocol)

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Refer to the following wireless standards, which permits increased bandwidth through channel bonding?

- A. 802.11g
- B. 802.11n

- C. 802.11a
- D. 802.11b

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

Which type of wireless encryption is the best?

- A. TKIP
- B. WEP
- C. RADIUS
- D. AES

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

Many users complain of not being able to connect to a specific website. Which action should the network manager take FIRST?

- A. Capture packets from a workstation.
- B. Disable content filtering.
- C. Check event log each workstation.
- D. Check the firewall logs.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

NIC is short for Network Interface Card. Which item below is applicable to testing the NIC operation?

- A. Rollover
- B. Crossover
- C. Loopback
- D. 568B

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Select a software from the following to monitor the network traffic at the frame level.

- A. Load testing
- B. Packet sniffer
- C. Throughput testing
- D. Connectivity

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Should a break occur in the cable of an Ethernet network, \_\_\_\_\_ will be offline.

- A. all hosts on the network
- B. the host directly connected to the failed cable
- C. the hosts upstream from the failed cable
- D. none of the hosts on the network

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

What is required for segmenting a large network?

- A. Subnetting
- B. DHCP
- C. Switches
- D. Gateways

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

A VoIP system has just been deployed in your network. However, calls are discarded during busy times. What should be used to achieve this task?

- A. SSL VPN
- B. Fault tolerance
- C. QoS
- D. Load balancing



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Your customer is complaining about the decreased signal strength on the wireless connection. This does not happen before and the network configuration remains the same. What is the source of this issue?

- A. Environmental factors
- B. Standards mismatch
- C. Incorrect encryption
- D. Incorrect SSID

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Which terms is correct about the method used when a group of people, such as customers or suppliers, are permitted to pass through the firewall and access authorized sections of the network?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

Select one remote access solution from the following to permit the least connection overhead.

- A. IPSec VPN
- B. SSL VPN
- C. PPTP VPN
- D. L2TP VPN

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

As a network administrator, you must configure channels on which network equipment?

- A. Hub
- B. Wireless access point
- C. Unmanaged switch
- D. Firewall

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 30**

Which of the following are NOT valid reasons for implementing subnetting?

- A. To increase the number of hosts a Class A network address can support.
- B. To minimize network traffic and reduce network congestion.
- C. To optimized the use of the IP address space.
- D. To break up a large network.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 31**

If you want to limit communication between network devices, which option below is applicable?

- A. CIDR
- B. NAT
- C. DHCP
- D. ACL

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 32**

Refer to the following devices, which one works at the OSI physical layer?

- A. Hub B. Bridge
- B. Switch
- C. Router

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which routing protocol can load balance across unequal paths?

- A. RIPv2
- B. EIGRP
- C. OSPF
- D. RIP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 34**

Network topology is the study of the arrangement or mapping of the elements of a network. In the Star-Ring topology, the computers are connected to a central component as in a star network. Choose one item that can be used by star ring topology to transfer data.

- A. CHAP
- B. CSMA/CD
- C. CSMA/CA
- D. Token passing

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

AS-Path can be used by which protocol to create the routing table?

- A. EIGRP
- B. OSPF
- C. IS-IS
- D. BGP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36**

Your company's building has many floors. You are asked to install a wireless network in this building, what should be taken into consideration?

- A. Frequency configuration
- B. Encryption algorithm

- C. Channel overlap
- D. SSID naming

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

As a network technician, you are responsible for maintaining a network router. How to temporarily re-route traffic through another office?

- A. Configure a static route.  
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- B. Configure EGP.
- C. Implement steady state convergence.
- D. Implement NAT on the server.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

Which mechanism is used by a DHCP server to track which IP address is assigned to a particular computer?

- A. MAC address
- B. FQDN
- C. DNS
- D. WINS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

Look at the following protocols carefully, which one will permit automated alerts and reports on network devices?

- A. SNMP
- B. TLS
- C. IGMP
- D. SMTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

If you want communication to be performed at both 2.4GHz and 5GHz frequencies, which wireless communication standard will you use?

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

When attaching to a Windows network resource, credentials are supplied through the use of a:

- A. cookie
- B. cache
- C. token
- D. key file.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Which network device should be installed to connect a fiber NIC to an Ethernet backbone?

- A. Repeater
- B. Bridge
- C. Media converter
- D. Hub

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

Which item below should be configured to improve network performance?

- A. Traffic shaping
- B. Caching engine
- C. Firewall

D. Load balancing

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 44**

Which of the following statements is FALSE?

- A. A public IP address is required for users on a private network to access resources on the Internet.
- B. Public IP addresses are regulated by the American Registry for Internet Numbers (ARIN).
- C. Private IP addresses allow more than one private IP network to have the same IP address.
- D. Private IP addresses may not be duplicated.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 45**

Look at the following options, which two can identify whether a machine uses the correct DNS server? (Select TWO).

- A. tracert
- B. netstat
- C. ifconfig
- D. ipconfig

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 46**

A customer who has built Internet connectivity is unable to use VPN to connect to the office. Which action will be taken next to troubleshoot?

- A. Reinstall the VPN client at the remote computer.
- B. Power cycle the VPN concentrator at the office.
- C. Determine if the VPN service is running at the office.
- D. Determine if the user has the correct VPN address and password.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

In a star topology, a central device connects all the devices on the network. What is the central device?

- A. gateway
- B. router
- C. hub
- D. repeater

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

In order to manage a web server, which service is used on a Windows network operating system?

- A. HTTP
- B. NET
- C. XML
- D. IIS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

As a network technician, you are asked to move some established phones by moving the wire connection at the termination block. Which tool needs to reconnect wires to the termination block?

- A. Punch down tool
- B. Cable stripper
- C. Snips
- D. Butt set

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

Which tool below is used for checking the speed and condition of a cable signal?

- A. TDR
- B. Voltage event recorder
- C. Toner probe
- D. Protocol analyzer

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

Which of the following will reduce DHCP traffic on a network?

- A. Increasing the lease expiration time on all DHCP clients.
- B. Increasing the lease expiration time on the DHCP server.
- C. Decreasing the lease expiration time on all DHCP clients.
- D. Decreasing the lease expiration time on the DHCP server.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 52**

Refer to the following tools, which one can verify the available phone numbers at a telecommunication block?

- A. Multimeter
- B. Punch down tool
- C. Butt set
- D. Toner probe

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

Charles is a network technician of his company. He discovers that many workstations can't connect to the network, but he is unable to identify the reason. In order to solve this problem, what advice will you give?

- A. Document all possible causes
- B. Determine if anything has changed.
- C. Reboot the computer to try and recreate the issue.
- D. Escalate the issue to a senior network associate.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

Which of the following can be used to cache web pages for future retrieval?

- A. Switch



- B. Web server
- C. Repeater
- D. Proxy service

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 55**

A workstation can't connect to the network due to a trouble ticket. Which step will be taken first?

- A. Check switches.
- B. Gather information.
- C. Check gateway.
- D. Escalate the issue.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 56**

Fiber optic cables will be used in gigabit Ethernet. Gigabit Ethernet has which forms? (Select THREE).

- A. 1000Base-CX
- B. 10Base-T
- C. 1000Base-SX
- D. 1000Base-LX

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 57**

A proxy server is also called:

- A. domain controller.
- B. virtual server.
- C. caching server.
- D. remote access server.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

Which of the following is not provided by a DHCP server?

- A. Automatic configuration of IP address, subnet mask and default gateway.
- B. The IP address of the preferred WINS server.
- C. The IP address of the preferred DNS server.
- D. Automatic configuration of MAC address.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

The maximum segment range of a 100Base-FX network is:

- A. 1,023 meters (3,356 feet)
- B. 1,024 meters (3,359 feet)
- C. 100 meters (328 feet)
- D. 2,000 meters (6,561 feet)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

The maximum range of 10GBase-SR is which of the following?

- A. 1000 feet (305 meters)
- B. 990 feet (302 meters)
- C. 6 miles (1593 kilometers)
- D. 328 feet (100 meters)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

Which protocol will permit a user to simulate being at their office computer from home?

- A. RAS
- B. SLIP
- C. RDP
- D. VPN

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

The maximum transmission distance of 10GBase-LR is:

- A. 6 miles (9.7 kilometers)
- B. 1,024 miles (1648 kilometers)
- C. 25 miles (40 kilometers)
- D. 512 miles (824 kilometers)

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 63**

In a 1000Base-T network, the maximum cable length is:

- A. 100 meters (328 feet)
- B. 1,024 meters (3360 feet)
- C. 128 meters (420 feet)
- D. 1000 meters (3280 feet)

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 64**

Antivirus software (or anti-virus) is computer software used to identify and remove computer viruses, as well as many other types of harmful computer software, collectively referred to as malware. Which of the following is the basic function of an antivirus program?

- A. Scans the computer using known virus locations
- B. Scans the computer using known virus signatures
- C. Scans the computer using known virus names
- D. Scans the computer using known virus file sizes

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

In the process of troubleshooting the network problems, the network technician is able to see all the communications on the network segment because he uses the laptop as a network sniffer. The laptop is

plugged into which network device?

- A. Hub
- B. Router
- C. Gateway
- D. Basic switch

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 66

According to the following information, can you tell me why the host can't communicate across a network? Host Name . . . . . :

Test20 Primary Dns Suffix . . . . . : abc.com Node Type . . . . . : Unknown IP Routing Enabled. . . . . : No WINS Proxy Enabled. . . . . : No DNS Suffix Search List. . . . . : abc.com Ethernet adapter Local Area Connection: Connection-specific DNS Suffix . : Description . . . . . : Broadcom NetXtreme Gigabit Ethernet Physical Address. . . . . : 00-00-00-15-A1-D0 Dhcp Enabled. . . . . : No IP Address. . . . . : 10.0.37.144 Subnet Mask . . . . . : 255.255.254.0 Default Gateway . . . . . : 10.0.38.1 DNS Servers . . . . . : 10.0.36.5

- A. Gateway IP is incorrect.
- B. DNS server address is incorrect.
- C. Subnet mask is incorrect.
- D. IP address is incorrect.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 67

Which of the following protocols is used to transmit e-mail between the two e-mail servers?

- A. Post Office Protocol, version 3 (POP3)
- B. Simple Mail Transfer Protocol (SMTP)
- C. Internet Control Message Protocol (ICMP)
- D. Internet Message Access Protocol, version 4 (IMAP4)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 68

You are a network technician. On Monday morning, you receive a phone call, saying that some computers will disconnect to the network. After examination, you discover that the computers left on over the weekend work normally and those that were shutdown over the weekend stop working. According to the above information, do you know what causes this issue?

- A. DHCP is not functioning.
- B. LDAP is not functioning.
- C. WINS needs to be restarted.
- D. DNS is not functioning.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 69**

Port 123 can be applied to which of the following items?

- A. IMAP4
- B. DNS
- C. HTTPS
- D. NTP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 70**

In order to support new VoIP telephony equipment, your company upgrades the network infrastructure. What should be taken first when choosing a new switch to support the phones?

- A. PoE
- B. VPN capability
- C. Modular chassis
- D. Port mirroring

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

Which of the following provides error reporting in TCP/IP?

- A. NNTP
- B. ICMP
- C. IGMP
- D. SNMP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 72**

Which item is correct about an automated application that can infect computers without user interaction?

- A. A worm
- B. A social engineering attack
- C. Asmurf attack
- D. A Trojan

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 73**

If you want to establish a switched network with fault tolerance, which option below can permit loops in the switched topology while blocking a broadcast storm?

- A. Port aggregation
- B. 802.1q VLANtrunking protocol
- C. Spanning tree protocol
- D. Port mirroring

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

An administrator has just received a call from an end user saying they are unable to log in to the network, although they could yesterday. Overnight, the administrator replaced an ISA (Industry Standard Architecture) Token Ring card with a Token Ring PCI (Peripheral Component Interconnect) NIC (Network Interface Card) in the users computer on a 16 Mbps (Megabits per seconds) LAN (Local Area Network). What is the NEXT step?

- A. Verify the MAU (Multistation Access Unit) is good
- B. Verify the processor speed
- C. Verify the user password is correct
- D. Verify the speed of the NIC (Network Interface Card) matches the network

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 75**

As a network administrator of your company, you have just discovered that a large block of addresses are denied without comment. The range of the blocked addresses is from 224.0.0.0 to 239.255.255.255. Which of

the following options is the best description of these addresses?

- A. Unused private addresses
- B. Asia-pacific addresses
- C. Multicast addresses
- D. RFC1918 private addresses

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 76**

Given that two switches are connected together, which protocol is able to trunk multiple VLAN traffic across the same physical link?

- A. Port mirroring
- B. Porttrunking
- C. 802.1x
- D. 802.1q

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 77**

Which of the following best describes ARP?

- A. Allows remote logon over the network
- B. Responsible for resolving IP addressing
- C. Responsible for managing IP multicast groups
- D. Provides maintenance and reporting functions

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 78**

Your company's network has been extended, and you can't monitor the network devices manually. Which item below can offer central logging for all devices with message priority levels?

- A. Install asyslog server and configure the network devices to send log messages to it.
- B. Install a SNMP polling server to monitor and collect logs on equipment.
- C. Install a new server with remote terminals open to monitor equipment.
- D. Install a protocol analyzer to monitor traffic logs.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

Which layer of the OSI model can provide reliable communication?

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

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

In order to transfer traffic from one VLAN to another, what is needed?

- A. A layer one switch
- B. A server with NICs on both VLANs
- C. A layer three switch
- D. A layer two switch

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

A remote user has been set up to print to a network printer. After connecting remotely, the print server stops functioning; and the router shows 100% traffic being received. What is the cause of the problem?

- A. The client is using an unauthorized user name and password, causing a stop function call.
- B. The client is performing a defragmentation and thus consuming network print server resources.
- C. The client is acting as a zombie and is causing a denial of service attack to occur on the print server.
- D. The client is infected with a virus, causing the print server to close the network connection.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

There is something wrong with the connection between a PC and a remote site. In the process of troubleshooting the connection issue, an ICMP traceroute displays that after several hops, addresses start repeating and TTL-exceeded message are returned. What the problem is?



- A. A DNS problem
- B. An ARP problem
- C. A switching loop
- D. A routing loop

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 83

The destination address of a packet is 192.168.1.203, according to the following routing table entries, can you tell me which is the next-hop address? Network Address Subnet Mask Next Hop Address  
0.0.0.0 0.0.0.0 0.0.0.0 77.0.5.5  
192.168.0.0 255.255.0.0 66.40.90.121 192.168.1.0 255.255.255.0 72.40.91.1  
192.168.1.0 255.255.255.127 40.40.0.254

- A. 66.40.90.121
- B. 77.0.5.5
- C. 40.40.0.254
- D. 72.40.91.1

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 84

Which of the following provides remote login over the Internet?

- A. Telnet
- B. SSH
- C. PPP
- D. IMAP4

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 85

In which type of network all routers agree about the route from one point to another?

- A. Dynamic
- B. Static
- C. Converged
- D. Secure

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 86**

Electromagnetic interference (EMI) is an unwanted disturbance that affects an electrical circuit due to either electromagnetic conduction or electromagnetic radiation emitted from an external source. Which type of Ethernet media can avoid interference?

- A. 100Base-FX
- B. 10Base5
- C. 100Base-T
- D. 10Base2

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 87**

Which range does the IPv4 address 172.162.10.1 belong to?

- A. class D address range.
- B. class B address range.
- C. class A address range.
- D. class C address range.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 88**

The Domain Name System (DNS) is a hierarchical naming system for computers, services, or any resource participating in the Internet. If you want to verify DNS functionality, which command will you use?

- A. arp
- B. netstat
- C. dig
- D. traceroute

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 89**

The 802.11g specification is a standard for wireless local area networks (WLANs) that offers transmission over

relatively short distances at up to 54 megabits per second (Mbps). What needs to be configured on each access point to support roaming across a wireless 802.11g network?

- A. CSMA/CD
- B. The same SSID
- C. The same frequency
- D. The same channel

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 90**

Which of the following is the maximum standard distance allowed to connect a customer via an ISDN line?

- A. 6,000 feet (1,828.8 meters)
- B. 8,000 feet (2,438.4 meters)
- C. 12,000 feet (3,657.6 meters)
- D. 18,000 feet (5,486.4 meters)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 91**

The system administrator performs full backups on Sundays. Incremental backups are performed every day EXCEPT Sunday. The backups start at 10

- A. m. and end by 12 p.m. The system crashes on Wednesday night. Which tapes must be used to restore data?
- B. Sundays full backup as well as Wednesdays tape
- C. Sundays full backup as well as Tuesdays and Wednesdays tapes
- D. Sundays full backup as well as Mondays, Tuesdays, and Wednesdays tapes
- E. Sundays full backup as well as Mondays, Tuesdays, Wednesdays, and Thursdays tapes

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 92**

Refer to the following Layer 2 protocols, which one will be used in a full mesh topology?

- A. PPP
- B. MPLS
- C. ATM
- D. Frame-relay

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 93**

As a network administrator, you are responsible for branch office of your company. And your branch office is assigned the network 10.44.210.0/24 and it has three separate VLANs for voice, workstations, and servers. Given that the branch office contains 50 end user workstations, 50 IP phones that require addressing, and a dozen servers. Which of the following is the best method to handle the block allocated to the branch?

- A. Do not subnet the block; use the /24 for all VLANs.
- B. Subnet the block into /25s and assign one to each voice and workstation VLANs.
- C. The administrator must request more networks and use the networks given so far for the servers and workstation VLANs.
- D. Subnet the block into /26s and assign one to each VLAN.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 94**

Which of the following is used to translate NetBIOS (Network Basic Input / Output System) names to IP (Internet Protocol) addresses?

- A. DNS (Domain Name Service)
- B. WINS (Windows Internet Name Service)
- C. NAT (Network Address Translation)
- D. SNMP (Simple Network Management Protocol)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 95**

As a network administrator, you have just received a feedback message that a customer at a branch office has been complaining about the slow access to static web content. After examination, you discover that there are many customers accessing the same site repeatedly the whole day. Which item below can improve WAN utilization?

- A. An application level firewall
- B. A traffic shaper
- C. A caching proxy server at the branch
- D. A load balancer at the datacenter hosting the web servers

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 96**

Your company is a Travel Corporation. As a network administrator, you are asked make sure that travelers can access corporate resources safely from non-trusted devices such as computers at client sites or public computers. Which of the following VPN solution will you choose?

- A. SSL
- B. PPTP
- C. IPSec
- D. L2TP

**Correct Answer: A**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 97**

What is the most likely cause that the lights on the switch are blinking green and then amber?

- A. A collision is taking place.
- B. A crossover cable is plugged in.
- C. The cable is loose.
- D. The port is unavailable.

**Correct Answer: A**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 98**

Given that the network is not configured with static addressing and the DHCP server is not applicable. In order to configure a computer with its IP address, which option will you choose?

- A. TFTP
- B. APIPA
- C. DNS
- D. BOOTP

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 99**

The Exterior Gateway Protocol (EGP) is a now obsolete routing protocol for the Internet originally specified in 1982 by Eric C. According to the following descriptions, select the most accurate one about the use of an EGP.

- A. Advertising a /24 to an upstream provider.
- B. Routing between VLANs on an Ethernet network.
- C. Periodic updates to neighbors on the LAN.
- D. Unequal cost load balancing over a switched network.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 100**

A user is unable to reach a web site on a host computer. The user can ping the host name and Telnet to the host name. What is the source of the problem?

- A. The host does not have a DNS (Domain Name Service) entry.
- B. The hosts HTTP (Hypertext Transfer Protocol) is down.
- C. The host does not have a WINS (Windows Internet Name Service) entry.
- D. The host is down.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Exam E

### QUESTION 1

An Internet Protocol (IP) address is a numerical identification and logical address that is assigned to devices participating in a computer network utilizing the Internet Protocol for communication between its nodes. Manual updating is not required when using IP addressing method. Then which of the following is to be used?

- A. Static
- B. Multiple
- C. TCP
- D. Dynamic

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

The throughput across the link becomes very low after installation of a new 802.11g point-to-point connection between two mansions. Given that the present configuration contains a wireless bridge on the roof with an omni-directional antenna. How to improve the link performance?

- A. Configure channel hopping on both wireless bridges.
- B. Replace the wireless bridges with wireless access points.
- C. Install bi-directional amplifiers at both sites.
- D. Replace the omni-directional antennas with Yagi antennas.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

Hypertext Transfer Protocol (HTTP) is an application-level protocol for distributed, collaborative, hypermedia information systems. The default port for HTTPS is:

- A. 80
- B. 143
- C. 443
- D. 8080

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

A company is implementing Novell Client for Windows. Which service must be enabled?

- A. NetBEUI

- B. NWLink
- C. TCP/IP
- D. IPX/SPX

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

In a WAN environment, which type of network topology can avoid downtime?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

Telnet (Telecommunication network) is a network protocol used on the Internet or local area networks. The default port for telnet is which of the following?

- A. 22
- B. 20
- C. 21
- D. 23

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Which one of the following should be selected for a Microsoft client using CSNW (Client Services for NetWare) to connect to a Novell NetWare 4.1 server?

- A. TCP / IP (Transmission Control Protocol / Internet Protocol)
- B. IPX / SPX (Internetwork Packet Exchange / Sequence Packet Exchange)
- C. NetBEUI (Network Basic Input / Output Extended User Interface)
- D. GSNW (Gateway Services for NetWare)

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 8**

Your company has just added a new entertainment area. There is no change in the work area and equipment. Now, wireless connectivity issues often occur. What is the source of the problem?

- A. Encryption
- B. Interference
- C. Antenna placement
- D. Distance

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

In computing, the Post Office Protocol version 3 (POP3) is an application-layer Internet standard protocol used by local e-mail clients to retrieve e-mail from a remote server over a TCP/IP connection. The default port for POP3 is

- A. 80
- B. 21
- C. 25
- D. 110

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

A technician should connect to a Mac OS X server from a Windows workstation. The OS X server has Windows file sharing enabled. Which protocol can be used to connect the Windows workstation to the OS X server?

- A. LPD
- B. LDAP
- C. CUPS
- D. SMB

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks. The default port for SMTP is which of the following?

- A. 21
- B. 25
- C. 443
- D. 110

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

Select one protocol from the following to connect clients to a news server.

- A. SMTP
- B. NNTP
- C. IMAP4
- D. NCP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

What is the most likely cause that a new laptop purchased with an 802.11n wireless card can't connect to current 802.11a network?

- A. Interference
- B. The laptop is too far from the existing network
- C. Standard mismatch
- D. Wrong SSID is being used

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

John is a network technician of his company. He is informed that the email server (192.168.1.10) will be restarted in five minutes for maintenance. Which command can help him determine when the system comes back online in real-time?

- A. ping a 192.168.1.10
- B. tracert 192.168.1.10
- C. ping t 192.168.1.10
- D. tracert d 192.168.1.10

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

Plenum rated cable generally has the same data transmission performance specifications as regular CAT5e, but there are some differences in the wire pair coating, and the outer jacket of the cable itself. On which situation will plenum-rated cable be used?

- A. When installing cable in damp environments
- B. When installing cable in ceilings
- C. If transmission speeds greater than 100Mbps are required
- D. Where EMI may be an issue

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

Given that a school has two buildings. One is 1969 feet (600 meters) distant from the other. Which type of cable can connect the two buildings to create a secure link at a transmission rate of 1Gbps?

- A. RG-58 cable
- B. Point-to-point wireless link
- C. CAT6 cable
- D. Fiber optic cable

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which protocol is used for error reporting in concert with IP (Internet Protocol)?

- A. SMTP (Simple Mail Transfer Protocol)
- B. ICMP (Internet Control Message Protocol)
- C. IGMP (Internet Group Multicast Protocol)
- D. SNMP (Simple Network Management Protocol)

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

Refer to the punch down blocks below, which one is applicable to high- speed data transmission?

- A. Cross-connect block
- B. 25 pair cable block
- C. 66 block
- D. 110 block

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

Which command can be used to identify why a client can ping its default gateway but can't communicate with remote computers?

- A. nbstat
- B. arp
- C. ping -t
- D. traceroute

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

A network has been set up for DHCP services using a PDC and BDC each with a range of 192.168.0.1 to 192.168.0.254 using a class subnet of 255.255.255.0. DHCP errors are occurring. How to resolve the errors?

- A. Configure BootP on the server when the IP class subnets are split prior to implementing the scope.
- B. Change the default subnet to 255.255.0.0 to increase the number of allowable IP addresses to prevent collisions.
- C. The machines are holding IP addresses in cache memory. Reboot to renew the IP address.
- D. Split the scope addresses between the servers assigning 192.168.0.1 through 192.168.0.127 for the PDC and 192.168.0.128 through 192.168.0.254 for the BDC.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 21**

Which two features are of SMF? (Select TWO).

- A. Uses laser light for transmission.
- B. Can be used for distances exceeding 2 kilometers (1.24 miles).
- C. Costs less than MMF.
- D. Uses LED light for transmission.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Which action will be taken next after identifying that a computer can't connect to network accidentally?

- A. Determine if escalation is necessary.
- B. Determine if anything has changed.
- C. Identify the affected areas of the network.
- D. Establish the most probable cause.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

How will a failure of a router on a network with two VLANs affect communication?

- A. The entire network will be down.
- B. The network will remain fully operational.
- C. Communication between VLANs will be affected.
- D. All workstations connected to the router will be affected.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

Which device can be installed to create an additional collision domain without affecting the number of broadcast domains?

- A. A media converter
- B. A bridge
- C. A router
- D. A hub

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

Your customer wants to create an FTP connection to a home computer. This computer is connected to the

internet, however they can't connect from the PC at work. The customer is attempting to connect to the address 192.168.1.125. What is the most likely source of this issue?

- A. The firewall at the office is blocking the outgoing connection.
- B. FTP server is not installed on the home computer.
- C. The IP address of the home computer is not routable across the Internet.
- D. FTP client is not installed in the work computer.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

Cat 5e cable is an enhanced version of Cat 5 that adds specifications for far end crosstalk. Which tools are necessary to make a CAT5e crossover cable? (Select TWO).

- A. OTDR
- B. Cable crimper
- C. TDR
- D. Snips

**Correct Answer: BD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

Which of the following uses port 22?

- A. Telnet
- B. Secure Shell
- C. HTTP
- D. HTTPS

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

Select one IEEE standard to depict the power output of a standard switch port.

- A. 802.3aa
- B. 802.3af
- C. 802.3ab
- D. 802.3ae

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

Refer to the following WAN technologies, which one uses thirty 64Kbps channels?

- A. E-1
- B. T-1
- C. ATM
- D. MPLS

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

Five workstations and two servers are connected via a 100BASE-T network. Which physical topology is used?

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

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

If a multilayer switch wants to learn the IP address of a directly connected device, which protocol will be used?

- A. ARP
- B. DNS
- C. BOOTP
- D. DHCP

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

You are a network technician of your company. 400 users at a new remote site want to visit the Internet through only one public routable IP address. Which technology can help you achieve this goal while permitting direct

user access to the internet?

- A. VPN
- B. DHCP
- C. PAT
- D. DNS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 33**

Which of the following network services provides name resolution? (Choose all that apply)

- A. DHCP (Dynamic Host Configuration Protocol)
- B. DNS (Domain Name Service)
- C. WINS (Windows Internet Name Service)
- D. NAT (Network Address Translation)

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 34**

Which equipment can connect multiple network hosts in which place the physical signal is always reproduced to all ports?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 35**

Which IEEE standard will authenticated users prior to their access to the network?

- A. 802.1x
- B. 802.1s
- C. 802.1w
- D. 802.1d

**Correct Answer:** A

**Section:** (none)



**Explanation****Explanation/Reference:****QUESTION 36**

Refer to the following devices, which one permit segregation of collision domains instead of broadcasting domains?

- A. Switch
- B. NIC
- C. Router
- D. Hub

**Correct Answer: A**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 37**

Which of the following provides NetBIOS name to IP address resolution?

- A. DHCP (Dynamic Host Configuration Protocol)
- B. DNS (Domain Name Service)
- C. WINS (Windows Internet Name Service)
- D. NAT (Network Address Translation)

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 38**

The network technician discovers that email becomes slow after installing a mail server in the network. He determines that the error counters on the interface are increasing. What is the source of this issue?

- A. Port speed mismatch
- B. Duplex mismatch
- C. Wrong subnet mask
- D. Switch loop

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 39**

The firewall allows for the TCP port. The custom application deploys TCP 8090 hosted on the DMZ. But users on the network are complaining about being not able to access the custom application. Which command can verify that the server is still receiving connections on TCP 8090?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 40**

You want to know what IP address that belongs to the name www. Certways .com. Which of the following types of server is required to accomplish this?

- A. DHCP (Dynamic Host Configuration Protocol)
- B. DNS (Domain Name Service)
- C. WINS (Windows Internet Name Service)
- D. NAT (Network Address Translation)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 41**

Virus does harm to computers. Which network security device can avoid virus transmission?

- A. IDS
- B. IPS
- C. Content engine
- D. Firewall

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 42**

WAN is a data communications network that covers a relatively broad geographic area and that often uses transmission facilities provided by common carriers, such as telephone companies. Which WAN technology supports a 45Mbps circuit over TDM device?

- A. T3
- B. E3
- C. OC-12
- D. SONET

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

A technician is troubleshooting a problem on a network using a utility to capture the packets. When the technician reviews the captured data they have only captured broadcast packets and packets from their own computer.

What is the reason for this?

- A. They do not have permission to capture other packets.
- B. They are connected to a switch when trying to capture packets.
- C. The router is blocking the packets to the workstation.
- D. They are using an evaluation copy of the software utility.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

Category 6 cable, commonly referred to as Cat-6, is a cable standard for Gigabit Ethernet and other network protocols that is backward compatible with the Category 5/5e and Category 3 cable standards. Which item below is the maximum length of CAT6 cable?

- A. 292 feet (89 meters)
- B. 100 feet (30.5 meters)
- C. 246 feet (75 meters)
- D. 328 feet (100 meters)

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

Customers on a Windows network are able to successfully ping the IP address which is used to connect the network, however they discover that they are unable to visit any network resources, why?

- A. The domain controller is not responding.
- B. The DNS server is not resolving correctly.
- C. The file server is offline.
- D. The DHCP server is not assigning correct IP addresses.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

In order to map names to IP address, which item below will be deployed?

- A. Telnet
- B. DNS
- C. DHCP
- D. IMAP4

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

After configuring some network devices, the internet is not available to some users. Which of the following items will be help to determining this problem?

- A. Event logs
- B. History logs
- C. Application logs
- D. Phone logs

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

Which of the following can be used to differ CAT3 from CAT5 UTP ?

- A. number of conductors.
- B. color combinations of pairs.
- C. number of twists per inch.
- D. shielding.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

Which logs can be used to identify performance and network problems within the LAN?

- A. Proxy logs
- B. Application logs
- C. Configuration logs
- D. System logs

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

On the weekend, the power was cut off. On Monday morning, the helpdesk is informed of network problems from only one section of the LAN. The network technician determined all issues and resolved them. Which action will be taken next?

- A. Document the entire process.
- B. Determine if anything has changed.
- C. Identify potential effects of the solution.
- D. Let all users within the LAN know what the problem was.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

Which of the following requires a splitter?

- A. An analogue Modem
- B. An ISDN Modem
- C. A Cable Modem
- D. A T1 line

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 52**

Given that some switches lose their present settings and connectivity to the network. However, the central router still works normally. After troubleshooting, the network technician can identify the affected areas, establish the cause, and escalated the problem. Which step will be taken next?

- A. Create an action plan and solution.
- B. Meet with the emergency response team to determine the next step.
- C. Copy the core routers current configuration to all the affected switches.
- D. Immediately implement a solution.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

One of your customers is complaining about the disconnection to the network. And all other customers can connect to the network. You identify that there is a problem on the switch. Which of the following options is correct?

- A. Incorrect SNMP settings on the switch.
- B. Switching loop is occurring on the switch.
- C. Wrong subnet mask on the switch.
- D. Port is misconfigured on the switch.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

Which of the following requires a splitter? (Choose Two.)

- A. An analogue Modem
- B. An ISDN Modem
- C. A Cable Modem
- D. A DSL Modem

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

One of your customers is complaining about the disconnection to the network resources. But all other customers have not the same problem. The network administrator told you that the network cable connecting the workstation and the switch had problem. Do you know which is the source of this problem?

- A. Cable is not punched down at the punch panel.
- B. Patch cable is a crossover cable instead of straight-through.
- C. Cable has been cut somewhere within the wall.
- D. Crosstalk and interference are occurring.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

Which command can be used to display the MAC address?

- A. arp -a
- B. ipconfig
- C. arp -s

D. nbtstat -R

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 57**

Which UNIX service provides interoperability with Windows file and print sharing?

- A. Mozilla
- B. NFS (Network File Service)
- C. SMB (Server Message Block)
- D. TCL (Terminal Control Language)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

Which protocol should be installed in order to allow new users on new Windows XP computers to connect to the Novell network?

- A. TCP/IP
- B. IPX/SPX
- C. NetBEUI
- D. NetBIOS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

Computer networks use a tunneling protocol when one network protocol (the delivery protocol) encapsulates a different payload protocol. Which one of the following network techniques is involved in the secure tunneling?

- A. PPPoE
- B. PPP
- C. PAP
- D. SSL VPN

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

In the process of obtaining an IP address, which switch feature will eliminate a delay?

- A. Update the SNMP strings.
- B. Enable spanning tree on the interface.
- C. Enable trunking.
- D. Change the duplex mode to half-duplex.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

A small office network with ten computers uses a cable modem and router to connect to the Internet and distribute services to clients. After several weeks of use, the router's collision LED (Light Emitting Diode) has begun to stay on permanently. What is the MOST likely cause of the problem and the FIRST troubleshooting steps?

- A. There are too many collisions occurring in traffic. Disconnect each network card individually to find and replace the one that is broadcasting.
- B. The cable modem is set to receive packets at a faster rate than the router's receive port allows. Lower the buffer threshold limits to correct levels.
- C. The router's primary link to the modem has been lost. Reboot the modem and router to reset the link.
- D. The router has been compromised by an external source attack. Modify the router's registry to disallow the offending IP (Internet Protocol) source from connecting again.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

Which characteristic of a switch will permit two switches to transfer network information?

- A. Trunking
- B. PoE
- C. Disabling the routing protocols
- D. Port speeds

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 63**

Which technology can divide ports on the same network switch into different groups?

- A. Enabling VTP
- B. Trunking



- C. Enabling VLANs
- D. Port authentication

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 64**

Which type of cable has high speed capabilities and is usually found to be used in a backbone connection?

- A. MMF
- B. RG-59
- C. RG-6
- D. SMF

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 65**

Plenum cable is cable that is laid in the plenum spaces of buildings. What is the objective of the plenum cable?

- A. Reduces the amount of EMI going to the cable
- B. Increases the cable signal
- C. Reduces toxic gas released during a fire
- D. Decreases the cable signal

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 66**

When configuring a router on a SOHO network, the administrator changed the IP address scheme and closed DHCP service before configuring the wireless. After updating the router information, the computer is unable to connect to the router. How to rebuild the connection on condition that the current configuration on the router will not be changed?

- A. Assign a static IP address on the PC that matches the router.
- B. Use APIPA to connect the PC to the router.
- C. Restart the PC so it obtains a new IP address from the router.
- D. Restart the router so that the PC obtains a new IP address.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

What is the reason that a user working on a Windows PC can't access network resources on one of their UNIX servers?

- A. NDS is not installed on the UNIX server.
- B. AFS is not installed on the UNIX server.
- C. IIS is not installed on the UNIX server.
- D. Samba is not installed on the UNIX server.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

Internet Protocol version 6 (IPv6) is the next-generation Internet Layer protocol for packet-switched internetworks and the Internet. Which option gives the correct number of bits for IPv6?

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 69**

Which item below can avoid invalid access to the server room?

- A. Biometric lock
- B. RSA token
- C. Cable lock
- D. PKI card

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 70**

Which access approach below is the safest?

- A. RCP
- B. SFTP

- C. RSH
- D. SNMPv1

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

What is the maximum speed of a T1 Internet connection?

- A. 1.544 Mbps
- B. 2.048 Mbps
- C. 44.736 Mbps
- D. 274.176 Mbps

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 72**

CAT5 is an Ethernet cabling standard that supports high-speed networking. Refer to a horizontal cross-connect, the maximum distance that CAT5 cable can run is:

- A. 500 feet (152 meters)
- B. 328 feet (100 meters)
- C. 100 feet (30.5 meters)
- D. 336 feet (102 meters)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 73**

Refer to a horizontal cross-connect, the maximum distance that CAT 3 cable can run is:

- A. 100 meters (328 feet)
- B. 328 meters (1076 feet)
- C. 125 meters (410 feet)
- D. 256 meters (840 feet)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

Which of the following statements regarding remote access protocols is TRUE?

- A. SLIP provides no error checking and packet addressing but can be used over point-to-point links.
- B. Networks that use PPTP are vulnerable to attack from users on the Internet because PPTP uses the Internet as a WAN link.
- C. Like SLIP, PPP provides no error checking but is easy to configure.
- D. PPP supports authentication negotiation, as well as negotiation of encryption and compression between client and server.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 75**

One of your customers at a remote office uses a dynamic routing protocol to connect to headquarters. There are some routes to headquarters in case of route failure. And you discover that there is a several minutes interval when a failure occurs. What is the time lag called?

- A. Distance-vector
- B. Static routing
- C. Update algorithm
- D. Convergence

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 76**

Given that 169.123.142.34 is the IP address of the workstation. Customers are complaining about the disconnection to the network. Can you tell me the reason?

- A. The workstation has obtained a public address.
- B. The workstation has obtained a private address.
- C. The workstation has obtained a multicast address.
- D. The workstation has obtained an APIPA address.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 77**

Mac OS X Server uses Open Directory 2 to host LDAP compliant directory service. Which authentication service is being used?

- A. Kerberos

- B. EAP
- C. CHAP
- D. PAP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 78**

Your company has many branch offices, all of which use a subnet mask of 255.255.255.224. Which dynamic routing protocol should be configured?

- A. IGRP
- B. IS-IS
- C. BGP
- D. RIPv2

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 79**

The following options describe some access methods, which one can be used for wireless medium access?

- A. PPPoE
- B. CSMA / CA
- C. CSMA / CD
- D. PPTP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 80**

Which route will be chosen most when using a routing table?

- A. The BGP route
- B. The one with the greatest number of hops
- C. The lowest administrative distance
- D. The highest administrative distance

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

A network administrator has setup a new mail server in a new domain. Which DNS (Domain Name Service) records need to be created before e-mail can be received from the Internet?

- A. A record only
- B. MX (Mail Exchanger) records only
- C. MX (Mail Exchanger) and CNAME (Canonical Name) records
- D. MX (Mail Exchanger) and A records

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

A telephony firm installed the smart jack in the wrong place. Now, the company decides to move it 75 feet (23 meters) to the computer room. What is a must?

- A. A replacement smart jack
- B. 66 block extension
- C. Ademarc extension
- D. A 110 block extension

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 83**

In a structured wiring system, which network component supports an Ethernet network?

- A. 25 pair cable
- B. 110 block
- C. 66 block
- D. Smart jack

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 84**

A scanner has determined the open ports on a network device. Assume that services are operating on their default ports, which ports will offer secure communications?

- A. 21
- B. 22

- C. 23
- D. 25

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 85**

In a wiring system, which network component is created to support legacy phone systems?

- A. Patch panels
- B. 66 block
- C. 110 block
- D. Fiber conduit

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 86**

Company's information can be set secret through policies and procedures. Which of the following can be prevented by the professional employees on these procedures?

- A. Smurf attacks
- B. Patch management
- C. Man-in-the-middle attacks
- D. Social engineering

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 87**

Which permissions does Mac OS X Server 10.3 use by default for shared files and folder permissions?

- A. No permissions.
- B. NTFS permissions.
- C. MAC OS permissions.
- D. Standard UNIX permissions.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 88**

After further investigation, the network administrator identifies and resolves the problem that a system couldn't access to a file server.

Which action will be taken next?

- A. Identify the problem.
- B. Document the solution.
- C. Reboot the server.
- D. Create an action plan.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 89**

Class A addresses range from 0.0.0.0 through 126.255.255.255 and use a default subnet mask of 255.0.0.0. The routable public class A address is

- A. 19.16.18.255
- B. 10.0.0.255
- C. 19.16.18.1
- D. 10.0.0.10

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 90**

A single connection in a token bus network fails. What will happen?

- A. The whole network will be down and none of the hosts will have network connectivity.
- B. The failed connection will be down and only its hosts will have no network connectivity.
- C. All hosts will still be connected to the network and only failed connection will be down.
- D. The failed connection will be down and only the two hosts between the failed connection will have no network connectivity.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

Which routing protocol has a limitation of 15 hops?

- A. OSPF
- B. RIP



- C. BGP
- D. IGRP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

Given that the IP address of a server is 19.19.0.1. What is the default subnet mask of this server?

- A. 255.255.255.0
- B. 255.255.255.255
- C. 255.0.0.0
- D. 255.255.0.0

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

Which security attack can be mitigated by the filtering feature of MAC address?

- A. Viruses
- B. Worms
- C. Social engineering
- D. Rogue access points

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 94**

Which command can help a technician see how many server connections are open on a client machine?

- A. netstat
- B. arp
- C. dig
- D. nslookup

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 95**

In your company, a staff can't send email to another. The administrator believes that there is a problem with DNS. After entering nslookup, which command can identify the IP address of the email server?

- A. set type=cname
- B. set type=ptr
- C. set type=soa
- D. set type=mx

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 96**

Wide Area Network (WAN) is a computer network that covers a broad area (i.e., any network whose communications links cross metropolitan, regional, or national boundaries). Which type of WAN technology uses fiber as a transmission medium?

- A. ADSL
- B. SONET
- C. E1
- D. T1

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

Which connector will be used on a POTS connection?

- A. RJ-11
- B. MT-RJ
- C. F-Type
- D. RJ-45

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 98**

During the troubleshooting of the network problems, the network administrator identifies the affected area, which action will be taken next?

- A. The technician should test the best solution for the issue.
- B. The technician should consider any negative impacts to the network that might be caused by a solution.
- C. The technician should implement what is the best solution for the issue.

D. The technician should check to see if there have been any recent changes to this area of the network.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

Select a network device that is able to route in a network.

- A. Proxy server
- B. Multilayer switch
- C. Load balancer
- D. DNS server

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 100**

When mapping to a network printer for the FIRST time, the print driver initially attempts to download from:

- A. the Internet.
- B. a file server.
- C. the local cab files.
- D. a print server.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## **Exam F**

### **QUESTION 1**

Assume that you are a network administrator. If you want to control network devices such as switches or routers, what protocol will be helpful to you?

- A. SNMP
- B. NFS
- C. NAT
- D. DNS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 2**

Voice over Internet Protocol (VoIP) is a general term for a family of transmission technologies for delivery of voice communications over IP networks such as the Internet or other packet-switched networks. A VoIP phone having a built-in hub is plugged into a single network using both the hub port and the phone port. Because of the increasing traffic, the network becomes very slow. What can prevent this problem happening?

- A. Trunking
- B. Port mirroring
- C. VLANs
- D. Spanning tree

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

Which item below is not the benefit that static routing can bring to us?

- A. High network utilization due to updates.
- B. RIP updates will need to be transmitted via TCP.
- C. Unresponsive to changes.
- D. Packet destination cannot be controlled.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 4**

Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks. A user has set up filtering on an Internet router. The local SMTP server has stopped sending or receiving messages from the Internet. Why?

- A. The Internet router is blocking port 110.
- B. The Internet router is blocking port 25.
- C. The proxy server is filtering mail requests.
- D. The DHCP server is down.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

Which command can indicate the destination MAC addresses?

- A. nbtstat
- B. ping
- C. dig
- D. arp

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

Open Ports is a powerful port-to-process mapping utility. Given that services are operating on their default ports. A scanner identifies the open ports on a network device. Which port will offer secure communications?

- A. 20
- B. 22
- C. 21
- D. 23

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

Which of the following allows a Windows workstation to access file and printer resources on a Linux server?

- A. NFS
- B. SMB
- C. DHCP
- D. LDAP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

Open Ports is a powerful port-to-process mapping utility. Given that services are operating on their default ports. A scanner identifies the opens ports on a network device. Which port will offer securecommunications?

- A. 143
- B. 67
- C. 69
- D. 443

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Which tool can help you to resolve the problem of time-out of database server inquiries?

- A. Cable tester
- B. Butt set
- C. Tone probe
- D. Packet analyzer

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

Which IEEE (Institute of Electrical and Electronics Engineers) 802.x standard describes the physical layer for networks that use a ring topology?

- A. 802.2
- B. 802.3
- C. 802.4
- D. 802.5

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

A T1 line is a fiber optic line that can carry roughly 60 times more data than a normal residential modem. A full T1 line runs at which maximum speed?

- A. 765Kpbs

- B. 5.23Mbps
- C. 10.73Mbps
- D. 1.544Mbps

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

The maximum segment length is based on the signal attenuation of a particular media in terms of dB loss per unit length - for each meter of cable. Which is the network media with the longest maximum segment length?

- A. Single Mode Fiber
- B. Multimode Fiber
- C. CAT6
- D. Coaxial cable

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

If you want to avoid broadcast storms, which service will you enable?

- A. Bonding
- B. Spanning tree
- C. Port mirroring
- D. DHCP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

A user can reach a website on a host computer. The user can ping the host name and Telnet to the host name. What is the cause of this problem?

- A. The host is down.
- B. The hosts HTTP is down.
- C. The host does not have a DNS entry.
- D. The host does not have a WINS entry.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

Which network device will permit routing according to logical addresses?

- A. Layer 3 switch
- B. Layer 2 switch
- C. Layer 1 NIC
- D. Layer 2 hub

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

As a network administrator, you are asked to change locations of a phone between 66 blocks. Refer to the following tools, which will be used for locating positions in the cross connection?

- A. Toner probe
- B. Voltage meter
- C. cable tester
- D. Butt set

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which of the following statements regarding Novell NetWare is FALSE?

- A. Novell NetWare uses Novell Directory Services (NDS) for resource access and authentication.
- B. Novell NetWare uses public key encryption during the login process.  
This means that passwords are never sent in clear text between client and server.
- C. Novell NetWare is the only network operating system that has been certified by the National Security Agency (NSA) as C2 Red Book secure.
- D. Novell NetWare is the least interoperable network operating system.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

If you want to create a connection between a wall jack and the desktop, which tool below will be help to you?

- A. Multimeter



- B. Snips
- C. Punch down tool
- D. Cable stripper

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

If you want to know whether there is acoustic disturbance on the cable and the connection is punched down, which tool will you use?

- A. Cable tester
- B. Voltage event recorder
- C. Multimeter
- D. Protocol analyzer

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

A user is trying to access a FTP (File Transfer Protocol) server but discovers that FTP (File Transfer Protocol) is being blocked by a firewall. After unblocking port 21 on the firewall, FTP (File Transfer Protocol) still does not work. What is the source of the problem?

- A. TFTP (Trivial File Transfer Protocol) is not installed.
- B. NFS (Network File System) is not installed.
- C. Port 20 must also be unblocked.
- D. Port 22 must also be unblocked.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 21**

The network technician will use a punch down tool on which of the following?

- A. ST connector
- B. RJ-45 connector
- C. Smart jack
- D. 110 block

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

On the network, which tool can test the break in a fiber connection?

- A. Butt set
- B. OTDR
- C. Multimeter
- D. Toner probe

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

Which IP address is unroutable?

- A. 201.35.44.1
- B. 172.16.16.1
- C. 126.14.254.1
- D. 192.10.20.1

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

After implementing a WAP, a technician should verify the installation by which of the following?

- A. performing a site survey.
- B. performing a download test.
- C. checking it with a protocol analyzer.
- D. adding it to the wiring diagram.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

If you want to connect cable drops to other devices by using short Ethernet cables, which network component will you use?

- A. EDF
- B. MDF

- C. Patch panel
- D. Demarc extension

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

Which term best depicts a rate at which bits are transferred over a WAN link?

- A. Transmission speed
- B. Frequency
- C. Baud rate
- D. Throughput

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

Which command will produce the following output? ethoLink encap :

Ethernet HWaddr: 00 : 80 : C8 : D6 : 74 : 43 inet adder : 4.150.6.3 Bcast : 4.255.255.255 Mask: 255.0.0.0

- A. ipconfig
- B. nslookup
- C. ifconfig
- D. arp

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

Which type of cable contains a solid Kevlar center to prevent it from making a 90 degree bend?

- A. CAT5
- B. CAT5e
- C. CAT3
- D. CAT6

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

Refer to a vertical cross connection, which type of cable will be used when connecting two devices for data?

- A. Fiber
- B. CAT5e
- C. Coaxial
- D. CAT6

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

An administrator changes the lease time of the DHCP (Dynamic Host Configuration Protocol) scope from one week to one day. What effect will this have on the end users?

- A. The users will have to re-login every day now.
- B. The users will have to manually release and renew their IP (Internet Protocol) addresses to continue working on the network.
- C. The users will not be affected by the change.
- D. The users will have to shut their computers down for the duration of the lease to obtain a new lease.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

Refer to a vertical cross connection, which type of cable will be used when connecting two devices for data?

- A. Cross-connect wire
- B. CAT3
- C. CAT5
- D. 25 pair cable

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 32**

Select one network technique to move a TI closer to the switch for connectivity.

- A. Smart jack
- B. 25 pair cable
- C. Demarc extension

D. Patch panel

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 33**

Which one of the following choices is the MOST secure place to store tape backups?

- A. Next to the server
- B. In a locked room in the same building as the server
- C. In a locked room in an offsite location
- D. In a desk drawer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 34**

In order to run over port 1723 and perform encryption at the data level, which VPN protocol will you use?

- A. PPTP
- B. RAS
- C. SLIP
- D. PPPoE

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 35**

While using data connections, what can be used for connecting a vertical cross connect?

- A. Patch panel
- B. 66 blocks
- C. 110 blocks
- D. Demarc extension

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 36**

As a network technician, can you tell me which tool can verify the wiring installation for the network?

- A. Protocol analyzer
- B. Voltage event recorder
- C. Multimeter
- D. Cable tester

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

A home user has been assigned one static IP (Internet Protocol) address. If the user wishes to use the 192.168.0.1 address range, what technology should the user implement?

- A. PPP (Point-to-Point Protocol)
- B. Proxy server
- C. RADIUS (Remote Authentication Dial-In User Service) server
- D. SLIP (Serial Line Internet Protocol)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 38**

Which option is a measure to elect next hop from the routing table?

- A. Greatest number of hops
- B. The BGP route
- C. Lowest administrative distance
- D. Most precise matching prefix

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 39**

Which three items are applicable to creating a hub and spoke WAN network? (Select THREE).

- A. Frame-relay
- B. MPLS
- C. ATM
- D. DOCSIS

**Correct Answer:** ABC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

Why does a small office / home office (SOHO) secure wireless router work as a firewall?

- A. Because it only filters outgoing packets.
- B. Because the router separates two logical networks.
- C. Because the router uses MAC filtering.
- D. Because multiple networks are connected via ICMP.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

Which network device is able to transmit frames from one broadcast domain to another?

- A. Hub
- B. Media converter
- C. Router
- D. Unmanaged switch

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

Select the network equipment from the following to translate canonical names into IP addresses.

- A. A router
- B. A DNS server
- C. A firewall
- D. A DHCP server

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

Which network scanner can determine areas of weak security in an environment?

- A. Port
- B. Vulnerability
- C. Spyware

D. Antivirus

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

Which network component is used for translating a synchronous serial connection to time division multiplexed connection?

- A. A content switch
- B. A router
- C. A proxy server
- D. A CSU/DSU

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

If you want to authenticate resources like computers, users and printers using various operating systems, which protocol is appropriate?

- A. SMTP
- B. TCP
- C. UDP
- D. LDAP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

A workstation can ping other workstations on the local subnet and can translate IP addresses of any computer, but it can't ping addresses on other subnet. Why?

- A. The workstation is assigned to the incorrect VLAN.
- B. The workstation is configured with the incorrect default gateway.
- C. The workstation's NIC is configured for a different port speed than the switch.
- D. The workstation is configured with an incorrect subnet mask.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 47**

Which statement is correct about NetWare Directory Services (NDS) configuration?

- A. Remote users can access the tree through dial-in connections.
- B. There are no differences between mobile users and remote users.
- C. Mobile users do not require changing the NDS name context.
- D. Remote users do not require a special NDS object entry.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 48**

Why the network administrator is unable to send packets with a size of 1501 bytes after increasing the router interface MTU to 1600 bytes?

- A. The branch router cannot process frames larger than 1500 bytes.
- B. The router at the other end of the WAN link is configured with an MTU of 1500.
- C. The frames take too long to send causing collisions with other devices attempting to send traffic.
- D. The WAN link does not support frames over 1500 bytes in size.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**

Why does a broadcast storm happen to LAN after installation of a new switch and connecting redundant uplinks to other switches?

- A. VLAN assignments on the new switch conflicted with existing VLAN assignments elsewhere on the network.
- B. Port aggregation was incorrectly configured.
- C. Incorrect trunk encapsulation was applied.
- D. Spanning-tree protocol was not operational on the LAN.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

What does Gateway Services for NetWare (GSNW) enable?

- A. Windows client access to resources hosted on a NetWare server via a Windows NT server.
- B. Windows client access to resources hosted on a NetWare server directly, provided clients have user accounts and rights on the NetWare server.
- C. Novell client access to resources hosted on a Windows NT server.

D. Mac OS X client access to resources hosted on a NetWare server.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

Packet sniffing is listening (with software) to the raw network device for packets that interest you. Which protocol is most likely to be affected by a packet sniffer?

- A. HTTPS
- B. SFTP
- C. SNMPv2
- D. SSH

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 52**

Which range of addresses will be denied in the ACL to avoid multicast packets from crossing the WAN interface?

- A. 127.0.0.0-127.255.255.255
- B. 224.0.0.0-239.255.255.255
- C. 10.0.0.0-10.255.255.255
- D. 192.168.0.0-192.168.255.255

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

A network consists of 10 Windows workstations and 1 NetWare server. Which of the following must you install on each Windows workstation to allow the workstations access to the NetWare server?

- A. Gateway Services for NetWare (GSNW)
- B. Client Services for NetWare (CSNW)
- C. File and Print Services for NetWare (FPNW)
- D. Client for Microsoft Networks (CMN)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

When there is a collision on an Ethernet link, which mechanism can calculate back-off time?

- A. Weighted Random Early Detect (WRED)
- B. Spanning Tree
- C. CSMA/CD
- D. CSMA/CA

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

Refer to T1 repair and maintenance, up to which of the following points is the local exchange carrier in charge of?

- A. The central office
- B. The smart jack
- C. The point of demarcation
- D. The router

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

After identifying the area affected by a problem, the NEXT step is to \_\_\_\_\_.

- A. Select the most probable cause.
- B. Identify what has changed.
- C. Implement a solution.
- D. Test a solution.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 57**

Which of the following is the maximum number of bits in an IPv4 network ID in a Class B?

- A. 2
- B. 4
- C. 8
- D. 16

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

You are the network technician of your company. You are asked to troubleshoot a Linux server connectivity issue. The server times out whenever resources from a remote location are trying to be accessed. Which command will you use to see where the break in connectivity is?

- A. ifconfig
- B. tracet
- C. nbtstat
- D. traceroute

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

Which device is able to forward traffic from one computer with the IP address of 10.0.0.100/25 to 10.0.0.200/25?

- A. A DNS server
- B. A router
- C. A hub
- D. A layer 2 switch

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

In computer networking, a wireless access point (WAP or AP) is a device that allows wireless communication devices to connect to a wireless network using Wi-Fi, Bluetooth or related standards. Which rule will be used for electing a channel to operate on while configuring a wireless access point?

- A. Select the channel with the frequency range least used in the given area.
- B. Select the channel closest to that configured on neighboring access points.
- C. Select the same channel as that configured on the neighboring access points.
- D. Select the channel farthest from that configured on neighboring access points.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

\_\_\_\_\_ allows Novell clients to access resources hosted on a Windows NT server.

- A. Gateway Services for NetWare (GSNW)
- B. Client Services for NetWare (CSNW)
- C. File and Print Services for NetWare (FPNW)
- D. Client for Microsoft Networks (CMN)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

Which protocol allows for secure polling of network devices?

- A. SNMPv2
- B. SCP
- C. SSH
- D. SNMPv3

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 63**

Cat 5e cable is an enhanced version of Cat 5 that adds specifications for far end crosstalk. Which tool below can let you know whether a CAT5e cable is running at optimal performance?

- A. Toner probe
- B. Certifier
- C. Multimeter
- D. Butt set

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 64**

What does the Server Message Block (SMB) protocol enable?

- A. Linux client access to files and printers hosted on a Mac OS X server.
- B. Windows client access to files and printers hosted on a UNIX server.
- C. Novell client access to files and printers hosted on a Windows NT server.
- D. Mac OS X client access to files and printers hosted on a NetWare server.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

Select a tool from following to transmit a signal along a cable and measure the time it spends on returning time?

- A. Multimeter
- B. TDR
- C. Voltage event recorder
- D. Toner probe

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 66**

For a point-to-point network link, the smallest subnet size can be generated by which subnet mask?

- A. 255.255.255.248
- B. 255.255.255.0
- C. 255.255.255.128
- D. 255.255.255.252

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

Which part of an Ethernet MAC address identifies the vendor of the NIC?

- A. Bytes 1-3
- B. Bytes 4-6
- C. Bytes 4-8
- D. Bytes 1-6

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

Which command will show the IP to Physical address table?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 69**

Quality of Service (QoS) is a method to guarantee a bandwidth relationship between individual applications or protocols. Why implement QoS when using real-time applications in the network?

- A. Prioritize delay sensitive traffic.
- B. Prioritize bulk traffic.
- C. Increase network bandwidth of delay sensitive traffic.
- D. Increase network reliability.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 70**

In your company's network, all cable terminations need to adhere to the 568B standard. As a network administrator, the boss asks you to re-terminate a loose wall jack. After inspection of the wiring, you discover that it was originally wired as 568A. Which action will you take?

- A. re-terminate the non-loose end of the cable to the 568B standard.
- B. run a new cable and terminate both ends to the 568B standard.
- C. re-terminate both ends of the cable to the 568B standard.
- D. re-terminate the loose end of the cable to the 568B standard.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 71**

Which of the following statements is TRUE?

- A. Windows 2000 uses Lightweight Directory Access Protocol (LDAP) for resource access and authentication.
- B. Mac OS X uses Active Directory which allows users to authenticate to a central database.
- C. UNIX is the only network operating system that has been certified by the National Security Agency (NSA) as C2 Red Book secure.
- D. Novell NetWare uses primarily Internet standard protocols, such as TCP/IP, FTP, HTTP, and LPR.

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 72**

Look at the following LAN connection technologies, select one which operates at full duplex speed of 200Mbps and uses CAT5e cable.

- A. 1000Base-TX
- B. 100Base-T
- C. 1000Base-X
- D. 100Base-FX

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 73**

Which boundary device is applicable to T1 circuits with the capability of performing diagnostics if activated remotely?

- A. Smart jack
- B. Demarcation extension
- C. 66 block
- D. 110 block

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

Which device is responsible for converting data to the proper network media?

- A. Switch
- B. Transceiver
- C. Bluetooth
- D. NIC (Network Interface Card)

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 75**

Which function is performed by QoS?



- A. Provide priority of one or more types of traffic over others.
- B. Block traffic from certain websites.
- C. Block traffic from certain users.
- D. Make use of the current bandwidth so it is a constant preset ideal by caching traffic.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 76**

Which type of cable can connect multiple layer 2 switches?

- A. Serial
- B. Loopback
- C. Rollover
- D. Crossover

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 77**

A facility designed to receive computer equipment during a disaster recovery is known as a(n):

- A. hot site.
- B. cold site.
- C. warm site.
- D. off site.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 78**

Which of the following can be connected by a 100 pair cable?

- A. telephony distribution.
- B. computer labs with more than 20 computers.
- C. businesses with more than 75 computers.
- D. security cameras.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

Select one protocol from the following to access VPN safely.

- A. PPPoE
- B. PPTP
- C. PPP
- D. SLIP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

As a network technician, your company asks you to add six new data ports to the new increased meeting room. It is verified that all cabling is terminated and working normally. Which action will be taken next?

- A. Check all of the cables with the OTDR.
- B. Update the wiring diagrams.
- C. Update the network baseline.
- D. Move some data across each port.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

Which dial-up protocol is capable of passing multiple LAN (Local Area Network) protocols across the wire?

- A. PPP (Point-to-Point Protocol)
- B. SLIP (Serial Line Internet Protocol)
- C. RADIUS (Remote Authentication Dial-In User Service)
- D. TCP / IP (Transmission Control Protocol / Internet Protocol)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

Which of the following is compatible with the 66 block termination point?

- A. coaxial compliant.
- B. IEEE 1394 compliant.
- C. CAT6 compliant.
- D. CAT3 compliant.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 83**

In the process of examination, the network administrator discovers that a customer is assigned the wrong IP address from the DHCP server when he attempts to connect. Which step will be taken next?

- A. Incorrect trunk
- B. Incorrect subnet mask
- C. Incorrect VLAN
- D. Incorrect duplex

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 84**

In order for a client to share resources on a wired network, the client must be physically connected and:

- A. mapped to the resources using the host name, followed by the resource name.
- B. allowed permission to the resources.
- C. be a member of AD (Active Directory).
- D. be listed in DNS (Domain Name Service).

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 85**

On a LAN network, the traffic can be managed by which network device?

- A. Switch
- B. Bridge
- C. Hub
- D. Repeater

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 86**

By default, port 22 is applicable to which network protocol?

- A. Telnet
- B. SSH
- C. FTP
- D. DNS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 87**

Which one of the following antenna types is omnidirectional?

- A. Vertical
- B. Dipole
- C. Yagi
- D. Parabolic

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 88**

Which type of cable runs at the longest distance?

- A. CAT3
- B. Single-mode fiber
- C. Coaxial
- D. Multi-mode fiber

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 89**

In a LAN network, after upgrading the firmware on each switch, what must be updated?

- A. Baseline and configuration documentation
- B. Physical network diagram
- C. Logical network diagram
- D. Wiring schematics

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 90**

Which network topology has at least two physical connections per host?

- A. The star topology.
- B. The ring topology.
- C. The bus topology.
- D. The partial-mesh topology.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

RIPv2 is the newer, enhanced version of the RIP routing protocol. The maximum hop count for RIPv2 is:

- A. 10
- B. 16
- C. 17
- D. 18

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

Using preferred path to avoid switching loops can be performed by which characteristic?

- A. Spanning tree
- B. VLAN
- C. Port bonding
- D. Port authentication

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

Dynamic routing allows routing tables in routers to change as the possible routes change. What is the objective of dynamic routing?

- A. Adapts to network changes by making manual changes.
- B. Adapts quickly to network changes without manual entries.
- C. Enables routing protocols with the least amount of hops.

D. Reduces domain collisions.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 94**

Ohms is unit of measurement of which tool?

- A. Multimeter
- B. TDR
- C. Butt set
- D. Cable tester

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 95**

The modern concept of small office/home office, or SoHo, refers to the category of business which can be from 1 to 10 workers. Which type of WAN technology will be used in SOHO environment containing only a few network devices?

- A. ATM
- B. Frame relay
- C. E1/T1
- D. Cable modem

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 96**

The cable provides 10 gigabit/second connections over unshielded or shielded twisted pair cables, over distances up to 100 metres (330 ft) and transmits data over 100Mbps per direction is:

- A. 10GBase-T
- B. 100Base-TX
- C. 10Base-T
- D. 100Base-T

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

The 5GHz spectrum is applicable to which wireless technology?

- A. 802.11a
- B. 802.11b
- C. 802.11n
- D. 801.11g

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 98**

An Ethernet crossover cable is a type of Ethernet cable used to connect computing devices together directly where they would normally be connected via a network switch, hub or router. How many pairs are there in a crossover cable?

- A. One
- B. Two
- C. Three
- D. Four

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

Which action will you take after troubleshooting a switch and determining the problems?

- A. Determine the scope of the problem.
- B. Escalate the issue.
- C. Create an action plan for reconfiguring the switch.
- D. Implement and test the solution on the switch.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 100**

Dense wavelength division multiplexing (DWDM) is a fiber-optic transmission technique that employs light wavelengths to transmit data parallel-by-bit or serial-by-character. DWDM can be found in which WAN technology?

- A. SONET
- B. ADSL

C. ISDN

D. T1

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



## **Exam G**

### **QUESTION 1**

Which type of cable is applicable to a 100Base-FX network?

- A. UTP
- B. STP
- C. Coaxial
- D. Fiber

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 2**

Which type of cable can be used as a patch to connect two computers to share files?

- A. Straight
- B. Rollover
- C. Loopback
- D. Crossover

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

Select a wireless network which is not configured with an access point.

- A. Local
- B. Extended
- C. Ad-hoc
- D. Multiport repeating

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 4**

A packet is destined for the address 72.44.69.254, when a router receives this packet, it discovers that the routing table does not contain this address. What will happen next?

- A. The packet will be queued while the router queries for an acceptable path to the destination.
- B. The packet will be dropped as non-routable.
- C. The packet will be forwarded out until another router forwards the packet.
- D. The packet will be forwarded to the next hop address of the default route.

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 5**

Which type of connector will you use with fiber lines by pushing it directly into the port without twisting?

- A. RJ-45
- B. BNC
- C. ST
- D. SC

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 6**

Which action will be taken next after troubleshooting the network problems?



<http://www.gratisexam.com/>

- A. Test if the solution works and identify other effects it may have.
- B. Gather information about the issue.
- C. Escalate the issue to another technician.
- D. Document the issue and the solution that was implemented.

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 7**

Which address below is applicable if you want to configure a server to offer file sharing for all departments of your company?

- A. 192.168.0.255
- B. 192.168.0.25
- C. 255.255.255.255
- D. 192.255.255.255

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

Your company has just installed a packet sniffer on the network. The sniffer discovers that client A is sending TCP SYN packets to server B.

What packet will server B return?

- A. ACK
- B. NAK
- C. SYN-ACK
- D. SYN-NAK

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

In 802.11 network, which technology will be used to avoid packet collisions?

- A. CSMA/CD
- B. FDDI
- C. CSMA/CA
- D. Token ring

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

In multiple pair wiring, which tool can be used to trace cables?

- A. Toner probe
- B. Butt set
- C. Multimeter
- D. Cable tester

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

After terminating local exchange carrier responsibility, what is the point?

- A. MDF
- B. Point of Presence (POP)
- C. Smart jack
- D. Demarc

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

Which protocol can be used by the OSI application layer?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

You are asked to configure two computers with the following IP addresses, subnet mask, and default gateway:

PC1 192.168.100.20

255.255.255.240

No DG PC2

192.168.100.10

255.255.255.240

192.168.100.1

If all network devices including the computers and the switch are connected to network cabling, and the default gateway are running correctly, when trying to send a file to PC2, what will happen?

- A. PC1 will not be able to communicate with PC2 since PC2 is in a different subnet and PC1 does not have a default gateway configured.
- B. PC1 and PC2 will not be able to communicate since both PCs must have the same default gateway.
- C. PC1 will send traffic to the default gateway at 192.168.100.1 since PC2 is in a different subnet and communication will occur.
- D. PC1 will perform an ARP broadcast to resolve PC2's IP address to MAC address since both PCs have the same subnet mask and communication will occur.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

Which item below is able to be filtered by the application layer firewall instead of the network layer firewall?

- A. ICMP
- B. Telnet traffic
- C. HTTP URLs
- D. HTTP traffic

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

Select a tool from following to retrieve device statistics, information, and errors.

- A. SMTP
- B. Packet sniffer
- C. TFTP
- D. SNMP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

Which two protocols can help you copy a file safely? (Select TWO).

- A. SCP
- B. SNMP
- C. TFTP
- D. SFTP

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Which characteristic of the switch will allow two small firms to share one switch?

- A. PoE
- B. VLAN
- C. Trunking
- D. Spanning tree

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

On a network, all printers have server hosted queues. A person complains that he is unable to print. The network administrator discovers that all jobs sent from this man fail to print. Which step will be taken next?

- A. Try the printer from another PC.
- B. Reboot the print server.
- C. Replace the printer.
- D. Power cycle the switch.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

A new employee of the HR department can only access the Internet, but can not access the HR server. What should be checked first?

- A. Correct VLAN setting
- B. Correct WINS setting
- C. Correct DNS setting
- D. Correct VPN setting

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

In order to permit alternative routes, what should be performed on multiple switches?

- A. Spanning tree
- B. VLAN
- C. Port mirroring
- D. Port authentication

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

As a network technician, you apply a packet analyzer to a single switch, but only receive incomplete packet

information. What should be performed on the switch?

- A. Spanning tree
- B. VLAN
- C. Port authentication
- D. Port mirroring

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 22**

Which item below can identify the problem that an application is often terminating?

- A. Application log
- B. Port scanner
- C. DNS log
- D. History log

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 23**

Which of the following could be used in a token ring network?

- A. A hub.
- B. A switch.
- C. A router.
- D. A MSAU.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 24**

Public and private keys are applied by which authentication approach to ensure communication and the users?? identity?

- A. Kerberos
- B. EAP
- C. CHAP
- D. PKI

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

The router routes traffic at which OSI layer?

- A. Layer 1
- B. Layer 3
- C. Layer 5
- D. Layer 6

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Which type of cable runs at the shortest distance?

- A. CAT3
- B. Coaxial
- C. Plenum
- D. Single-mode fiber

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

If you want to test fiber connectivity, what will you often use?

- A. Butt set
- B. Multimeter
- C. Toner probe
- D. OTDR

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

Which protocol uses link state algorithms as criteria to elect the best path?

- A. RIPv2
- B. OSPF



- C. BGP
- D. RIP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 29**

Which network device is able to run at both layers 2 and 3 of the OSI model?

- A. Bridge
- B. Hub
- C. Switch
- D. Repeater

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 30**

On a wireless network, which of the following is a domain level authentication method?

- A. TKIP B. RADIUS
- B. WAP
- C. WEP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 31**

Which type of cable is typically used to connect a 66 block to the telecommunication corporation?

- A. Fiber optic
- B. 25 pair
- C. 100 pair
- D. CAT6

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 32**

Since inputs on a NIC must go to outputs on the router, hub or switch, these latter devices have their inputs and

outputs (transmit and receive signals) reversed in a configuration known as MDIX or MDI-X. Which type of cable can connect a hub to a hub that does not support MDI-X?

- A. Loopback
- B. Crossover
- C. Straight
- D. Rollover

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 33**

What should be done after adding a new cable segment to the network?

- A. create a new baseline document.
- B. update the disaster recovery plan.
- C. update the wiring schematics.
- D. document the changes in the business continuity plan.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 34**

A repeater is an electronic device that receives a signal and retransmits it at a higher level and/or higher power, or onto the other side of an obstruction, so that the signal can cover longer distances without degradation. It works at which layer of the OSI model?

- A. Layer 1
- B. Layer 2
- C. Layer 4
- D. Layer 6

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 35**

Digital Signal 0 (DS0) is a basic digital signaling rate of 64 kbit/s, corresponding to the capacity of one voice-frequency-equivalent channel. Which of the following is the number of DS0s used in a T1?

- A. 22
- B. 24
- C. 28
- D. 30

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 36**

Which of the following is the maximum bandwidth of OC-12?

- A. 1.2Gbps
- B. 12Mbps
- C. 622Mbps
- D. 45Mbps

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 37**

In order to block certain websites and ports, what should be configured on a workstation?

- A. Host-based firewall
- B. Port scanner
- C. Antivirus service
- D. Network-based firewall

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 38**

The purpose of a DMZ is to add an additional layer of security to an organization's Local Area Network (LAN); an external attacker only has access to equipment in the DMZ, rather than the whole of the network. DMZ can be created by which network device?

- A. Network-based firewall
- B. File server
- C. WINS server
- D. Host-basedfirewal

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 39**

Refer to the following routing protocols, which one uses the next hop metric to determine the way of traffic routing?

- A. IGP
- B. BGP
- C. RIP
- D. IS-IS

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 40**

In a network, multiple nodes can be connected by which layer2 device?

- A. Router
- B. DHCP server
- C. Bridge
- D. Switch

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 41**

Both the T-568A and the T-568B standard Straight-Through cables are used most often as patch cords for your Ethernet connections. Which item below will use 568B standard?

- A. Wiring schematic
- B. Network baseline
- C. Logical network diagram
- D. Local regulation

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 42**

The blocked port can be found in which of the following documentations?

- A. RFC
- B. Baseline reports
- C. Network wiring schematics
- D. Policies, procedures and configurations

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

A rogue WAP can be found in which of the following documentation?

- A. Baseline
- B. Policies
- C. Regulations
- D. Wiring schematics

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 44**

Which wireless security protocol below is able to support the highest encryption standards?

- A. WEP
- B. WPA
- C. WPA2
- D. 3DES

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

Which protocol belongs to the OSI transport layer and has the best-effort delivery method?

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

Which statement best describes the objective of a DMZ?

- A. To create a security zone that allows public traffic but is isolated from the private network.

- B. To separate a security zone for an IPS.
- C. To separate a security zone for a VPN.
- D. To create a security zone that allows private traffic but is isolated from the public network.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 47**

Which tool can discover the unencrypted passwords sent over the network?

- A. Network scanner
- B. Throughput tester
- C. Packet sniffer
- D. VPN concentrator

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 48**

Which network component can make sure that connections between two servers are split according to usage?

- A. Proxy server
- B. Bandwidth shaper
- C. Content switch
- D. Load balancer

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 49**

Your company has 2,500 customers. Its internet bandwidth is not enough due to the large amount of web browsing. Which device can help your company reduce the Internet bandwidth being used?

- A. An additional DNS server
- B. Load balancer
- C. Proxy server
- D. Content switch

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

In order to facilitate DNS requests, you reconfigure a server. Which action will offer the best fault tolerance?

- A. Configuring traffic shaping
- B. Configuring WEP
- C. Adding a Kerberos server
- D. Adding a second NIC

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

As a network administrator, you are asked to lengthen a data circuit to the other side of the building. What needs to be configured at the new place?

- A. IDF
- B. ESD
- C. MDF
- D. EMI

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 52**

When creating a new network, what should be first installed?

- A. IDF
- B. MDF
- C. EMI
- D. VPN

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

In a Rip network, it takes several minutes to start routing traffic around a failed piece of device. How to improve convergence time?

- A. Replace RIP with an exterior gateway protocol such as BGP.
- B. Replace RIP with static routes so dynamic updates are not sent.
- C. Replace RIP with a link-state routing protocol such as OSPF.

D. Replace RIP with a distance-vector routing protocol such as RIP version 2.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

Which network device is able to be remotely looped due to troubleshooting?

- A. A smart jack
- B. A patch panel
- C. A 66 block
- D. A 110 block

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

In order to connect an office to your company's datacenter, a new frame- relay DS3 is installed. However, after the installation, a customer complains that it will take more time to load large files on the fileserver in the datacenter. What can identify the problem?

- A. A penetration test
- B. ping t
- C. A throughput test
- D. ping f

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56**

Which of the following is the best description about configuring two network cards for failover to prevent one of the NICs becoming defective? Page 134 of 142

- A. data redundancy.
- B. full duplex mode.
- C. hardware teaming.
- D. constantly awake mode (CAM).

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 57**

As a network technician, can you tell me which tool can hasten repeated access requests for static web content?

- A. A load balancer
- B. A caching engine
- C. A redundant switch
- D. A traffic shaper

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

What is the function of a packet sniffer?

- A. Checks the route to a remote host.
- B. Views networkdatagrams.
- C. Verifies name to IP address resolution.
- D. Verifies if a service is running on a remote host.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

An attack is harmful to your computer. Which type of software can determine an attack?

- A. IDS
- B. Port scanner
- C. Packet sniffer
- D. IPS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

Which type of software will close a port or discard certain types of packets to handle an attack (including identification and reaction)?

- A. Port scanner
- B. IDS
- C. IPS
- D. Packet sniffer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

A switch with 24 ports is configured with 12 VLANs with all ports being actively used. Which of the following is the maximum number of broadcast domains created by the switch?

- A. 6
- B. 12
- C. 20
- D. 34

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

Which wireless encryption method is the most secure?

- A. WPA
- B. ESSID
- C. WEP
- D. WPA2

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 63**

Pointer records are the opposite of A and AAAA RRs and are used in Reverse Map zone files to map an IP address (IPv4 or IPv6) to a host name. Pointer records and A records are used by which of the following?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 64**

Cell switching uses cell switches to forward fixed-length packets in a network. Which type of WAN technology applies cell switching?

- A. T1
- B. ATM
- C. Frame relay
- D. PSTN

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 65**

Refer to the following systems, which can discover and report attempts of unauthorized access to the network?

- A. IPS
- B. IDS
- C. Basic firewall
- D. Host-based firewall

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 66**

Centralized authentication is applicable to which logical topology?

- A. VPN
- B. Peer-to-peer
- C. Client/server
- D. VLAN

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 67**

According to the public addressing scheme, which IP address is valid?

- A. 233.10.20.1
- B. 168.192.10.1
- C. 10.20.1.1
- D. 172.20.10.1

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 68**

The Internet Protocol Suite (commonly known as TCP/IP) is the set of communications protocols used for the Internet and other similar networks. Which protocol is included in the TCP/IP protocol suite?

- A. SPX
- B. IPX
- C. NetBEUI
- D. UDP

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 69**

A routing protocol is a protocol that specifies how routers communicate with each other, disseminating information that enables them to select routes between any two nodes on a computer network, the choice of the route being done by routing algorithms. Which routing protocol is restricted to 15 hops?

- A. OSPF
- B. RIP
- C. BGP
- D. IGRP

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 70**

Which protocol will allow you to visit files on a remote server?

- A. FTP
- B. ARP
- C. NTP
- D. SIP

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 71**

Which of the following networks would collapse should a single node on the network fail? (Choose Two.)

- A. Ethernet
- B. Token Bus.
- C. Token Ring.
- D. Mesh

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 72**

You are reported that the office can't visit the internet, saying that an error on port 53 has occurred when trying to connect. Which item below possibly fails to work?

- A. DNS
- B. FTP
- C. HTTPS
- D. HTTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 73**

Refer to slow connections, which command can identify the delay time between the hops?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 74**

certways.com has a network that has a total of five hosts. Should certways.com implement a fullmesh network, how many physical connections will each host have?

- A. 1
- B. 2
- C. 4
- D. 5

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 75**

Which network device works at the OSI data link layer?

- A. Hub
- B. Switch
- C. Router
- D. Gateway

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 76**

Which of the following can configure a wireless router with the highest level of security?

- A. SSL
- B. IPSec
- C. WPA
- D. WEP

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**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 77**

Which actions will be finally taken after correcting a network problem? (Select TWO).

- A. Test the result.
- B. Notify the administrator.
- C. Identify and record the MAC address.
- D. Document the solution and the process.

**Correct Answer: AD**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 78**

A customer complains that his wireless network is often disconnected. Do you know the reason for drop-offs?

- A. Cordless phones

- B. Poor cable connection
- C. Lighting
- D. Cellular phones

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 79**

Dynamic Host Configuration Protocol (DHCP) is a network application protocol used by devices (DHCP clients) to obtain configuration information for operation in an Internet Protocol network. A host configured with DHCP is unable to locate a DHCP server. Which address will be assigned by APIPA (Automatic Private IP Address) to solve this problem?

- A. 10.16.1.25
- B. 169.254.1.25
- C. 192.168.1.25
- D. 172.16.1.25

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 80**

A collision is the result of two devices on the same network attempting to transmit data at exactly the same time. Collision is unlikely to happen to which network?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 81**

What is the maximum speed at which a 10Base-T Ethernet network operates?

- A. 4 Mbps
- B. 10 Mbps
- C. 16 Mbps
- D. 100 Mbps

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 82**

Assume that you are a network technician, you have just installed a new NIC in a client computer for a remote office. But the computer is still unable to visit the network after the operating system is successfully installed and configured to recognize the device. Why?

- A. The CAT5 cable is defective
- B. The NIC is disabled in Device Manager
- C. The RJ-11 jack is defective
- D. The NIC is disabled in BIOS

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 83**

Which method can be used to determine the wire location?

- A. Multimeter
- B. Continuity Tester
- C. Media Tester
- D. Tone Generator

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 84**

Which IEEE standard describes Ethernet?

- A. 802.3
- B. 802.4
- C. 802.5
- D. 802.11

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 85**

Port 443 is applicable to which protocol?

- A. HTTPS



- B. FTP
- C. SMTP
- D. HTTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 86**

A DNS server is a special type of computer on the Internet used to support the Domain Name System. Which command can view the DNS servers configured to be used by a computer?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 87**

Classful Routing is an old routing logic that first matches the Class A, B, or C network in the routing table. Which protocol only allows for classful routing?

- A. RIP
- B. OSPF
- C. EIGRP
- D. RIPv2

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 88**

Select a protocol to observe the email on condition that the email is staying on the email server.

- A. SSL
- B. IMAP4
- C. SMTP
- D. POP3

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 89**

SSH (or Secure SHell) is a protocol for creating a secure connection between two systems .Which port number is application to SSH?

- A. 20
- B. 21
- C. 22
- D. 23

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 90**

User names and passwords can be authenticated by a client workstation to which type of server?

- A. Windows Internet Name Service (WINS)
- B. Domain Name Service (DNS)
- C. Primary Domain Controller (PDC)
- D. Dynamic Host Configuration Protocol (DHCP)

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

Which of the following cable types is used to link together two buildings that are over 10 miles (16.09 kilometers) apart?

- A. SMF (Single Mode Fiber)
- B. MMF (MultiMode Fiber)
- C. Coaxial cable
- D. Category 6 cable

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 92**

Username and passwords can be transferred in clear-text by using which protocol?

- A. PAP

- B. SSH
- C. RADIUS
- D. CHAP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 93**

Which one of the following tools can capture usernames and passwords on the network?

- A. proxy server.
- B. firewall
- C. sniffer
- D. honey pot.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 94**

Which network relies on CSMA / CD (Carrier Sense Multiple Access / Collision Detection) for media access control?

- A. Token Bus
- B. Token Ring
- C. Ethernet
- D. Wireless

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 95**

A customer on a wireless network can access local resources, however, he is unable to access the internet? Why?

- A. The wireless network card is out of range.
- B. The gateway is not configured on the router.
- C. The wireless network card is not working.
- D. The wireless router does not have DHCP enabled.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 96**

During the conversion from 192 to binary, which option is accurate?

- A. 11000000
- B. 00000011b
- C. 00110000
- D. 00001100

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

10BASE2 (also known as cheapernet, thin Ethernet, thinnet, thinwire or quite simply Thinnies) is a variant of Ethernet that uses thin coaxial cable (RG-58 or similar, as opposed to the thicker RG 8 cable used in 10BASE5 networks), terminated with BNC connectors. Which of the following is the maximum length of a 10Base2 cable?

- A. 500 feet (152 meters)
- B. 225 feet (67 meters)
- C. 328 feet (100 meters)
- D. 606 feet (185 meters)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 98**

If using CIDR (classless interdomain routing notation) to rewrite the network address 220.100.100.100 with a subnet mask of 255.255.255.0, which of the following is correct?

- A. 220.100.100.100 /8
- B. 220.100.100.100 /32
- C. 220.100.100.100 /16
- D. 220.100.100.100 /24

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

APIPA is short for Automatic private Internet protocol addressing. Which range of the IP addresses will be assigned by APIPA?

- A. 192.168.x.x

- B. 172.16.x.x
- C. 10.0.x.x
- D. 169.254.x.x

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 100**

An Ethernet crossover cable is a type of Ethernet cable used to connect computing devices together directly where they would normally be connected via a network switch, hub or router, such as directly connecting two personal computers via their network adapters. How many pairs are crossed in a crossover cable?

- A. One
- B. Two
- C. Three
- D. Four

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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