

Exam N10-003 study material

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Free N10-003 Exam Preparation Questions

Exam N10-003: Network+ (2005)

Question: 1

Which one of the following IEEE (Institute of Electrical and Electronics Engineers) standards uses CSMA / CA (Carrier Sense Multiple Access / Collision Avoidance)?

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

Answer: D

Question: 2

Which one of the following IEEE (Institute of Electrical and Electronics Engineers) standards has a longer maximum distance than 100 meters (328 feet)?

- A - 10BASE-T B - 1000BASE-CX
- C - 1000BASE-T D - 100BASE-FX

Answer: D

Question: 3

802.11 security is defined in:

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

Answer: D

Question: 4

Which one of the following network topologies is unaffected when a single network client is physically disconnected?

- A - Linear bus B - Ring with no MAU (Multistation Access Unit)
- C - Star D - Token bus

Answer: C

Question: 5

Which media type cannot be scaled to 100 Mbps (Megabits per second) transmission speeds by replacing Ethernet switches?

- A - Category 5 cable B - Category 5e cable
- C - MMF (MultiMode Fiber) D - Coaxial cable

Answer: D

Question: 6

All of the following network devices will forward Layer 2 MAC (Media Access Control) broadcasts EXCEPT:

- A - hubs.
- B - bridges.
- C - routers.
- D - repeaters.

Answer: C

Question: 7

A wireless 802.11b network needs to add a security protocol to encrypt transmissions and prevent unauthorized access to the network. Which of the following should the user enable on the WAP (Wireless Access Point)?

- A - SSL (Secure Sockets Layer)
- B - WEP (Wired Equivalent Privacy)
- C - IPSec (Internet Protocol Security)
- D - L2TP (Layer 2 Tunneling Protocol)

Answer: B

Question: 8

How many B channels are available when using a BRI (Basic Rate Interface) ISDN (Integrated Services Digital Network)?

- A - 1 B - 2
- C - 3 D - 4

Answer: B

Question: 9

Which OSI (Open Systems Interconnect) layer does a router primarily interact with?

- A - Network

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- B - Physical
- C - Data Link
- D - Transport

Answer: A

Question: 10

What is another name for the MAC (Media Access Control) address?

- A - Absolute address
- B - Dynamic address
- C - Physical address
- D - IP (Internet Protocol) address

Answer: C

Question: 11

Which layer of the OSI (Open Systems Interconnect) model relates to IP (Internet Protocol) addresses?

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

Answer: D

Question: 12

All of the following options transmit data over a modem EXCEPT:

- A - POTS / PSTN (Plain Old Telephone System / Public Switched Telephone Network).
- B - XDSL (Digital Subscriber Line).
- C - cable.
- D - T1 (T-Carrier Level 1).

Answer: D

Question: 13

Which IPv4 (Internet Protocol version 4) address is the loopback address?

- A - 0.0.0.1
- B - 10.0.0.1
- C - 127.0.0.1
- D - 223.0.0.1

Answer: C

Question: 14

What part of an Ethernet MAC (Media Access Control) address designates the manufacturer of the NIC (Network Interface Card)?

- A - bytes 1-3
- B - bytes 1-6
- C - bytes 4-6
- D - bytes 4-8

Answer: A

Question: 15

Which two devices both operate at the same layer of the OSI (Open Systems Interconnect) model?

- A - Hub and switch
- B - Hub and router
- C - Router and bridge
- D - Switch and bridge

Answer: D

Question: 16

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)

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Answer: B

Question: 17

An Ethernet MAC (Media Access Control) address consists of:

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

Answer: C

Question: 18

What is the mechanism a DHCP (Dynamic Host Configuration Protocol) server uses to track which IP (Internet Protocol) address is assigned to a particular computer?

- A - MAC (Media Access Control) address
- B - DNS (Domain Name Service)
- C - WINS (Windows Internet Name Service)
- D - FQDN (Fully Qualified Domain Name)

Answer: A

Question: 19

Which protocol provides an encrypted virtual private networking connection between two devices?

- A - SSL (Secure Sockets Layer)
- B - PPTP (Point-to-Point Tunneling Protocol)
- C - SLIP (Serial Line Internet Protocol)
- D - TCP / IP (Transmission Control Protocol / Internet Protocol)

Answer: B

Question: 20

SMTP (Simple Mail Transport Protocol), FTP (File Transfer Protocol), and SNMP (Simple Network Management Protocol) are members of which protocol suite?

- A - TCP / IP (Transmission Control Protocol / Internet Protocol)
- B - AppleTalk over IP (Internet Protocol)
- C - ARP (Address Resolution Protocol)
- D - IPX / SPX (Internetwork Packet Exchange / Sequence Packet Exchange)

Answer: A

Question: 21

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.

Answer: B

Question: 22

Disk mirroring is also known as RAID (Redundant Array of Independent Disks):

- A - 0
- B - 1
- C - 2
- D - 5

Answer: B

Question: 23

A user has set up filtering on the Internet router. A remote POP3 (Post Office Protocol version 3) server has stopped responding to mail clients. What is the cause of the problem?

- A - The DHCP (Dynamic Host Configuration Protocol) server is down.
- B - The Internet router is blocking port 25.
- C - The Internet router is blocking port 110.
- D - The proxy server is filtering mail requests.

Answer: C

Question: 24

What is the minimum number of hard drives required to implement RAID ?0 (Redundant Array of

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Independent Disks)?

- A - 1
- B - 2
- C - 3
- D - 4

Answer: B

Question: 25

A company wants to have an intranet. Where would the intranet web server be located in the network?

- A - Outside the firewall
- B - In the DMZ (Demilitarized Zone)
- C - In the LAN (Local Area Network)
- D - In the DMZ (Demilitarized Zone) with port 80 open from the Internet

Answer: C

Question: 26

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)

Answer: B

Question: 27

What is a benefit of using a firewall?

- A - Protects LAN (Local Area Network) resources
- B - Protects external users
- C - Protects external hardware
- D - Protects hardware from failure

Answer: A

Question: 28

Which benefit does a firewall provide to a company connected to the Internet?

- A - It helps prevent hardware failure.
- B - It provides fault-tolerance security.
- C - It provides physical security.
- D - It provides perimeter network security.

Answer: D

Question: 29

A user would like to implement a secure ordering system on a web server. Which of the following protocols is installed?

- A - S/MIME (Secure / Multipurpose Internet Mail Extensions)
- B - SSL (Secure Sockets Layer)
- C - IPSec (Internet Protocol Security)
- D - Kerberos

Answer: B

Question: 30

Which hardware device creates an electrical signal on a wire so it can be located by a technician in the wiring closet?

- A - Tone locator
- B - Tone generator
- C - Crossover cable
- D - Packet sniffer

Answer: B

Question: 31

What device provides file services on a peer-to-peer network?

- A - Firewall
- B - Workstation
- C - Router
- D - Printer

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Answer: B

Question: 32

Which type of device provides perimeter defense for a company connected to the Internet?

- A - CSU / DSU (Channel Service Unit / Data Service Unit)
- B - Modem
- C - Switch
- D - Firewall

Answer: D

Question: 33

In order to resolve the name www.comptia.org, which type of server is required?

- A - DHCP (Dynamic Host Configuration Protocol)
- B - DNS (Domain Name Service)
- C - WINS (Windows Internet Name Service)
- D - NAT (Network Address Translation)

Answer: B

Question: 34

VLANs (Virtual Area Network) create which of the following?

- A - Broadcast domains
- B - Collision domains
- C - IP (Internet Protocol) addresses
- D - MAC (Media Access Control) addresses

Answer: A

Question: 35

Which of the following operating systems use NetBIOS (Network Basic Input / Output System) as the default protocol?

- A - Microsoft Windows 2000
- B - Microsoft Windows NT (New Technology) 3.1
- C - Novell NetWare 5.0
- D - Novell NetWare 3.1

Answer: B

Question: 36

Given the output:

```
1.pgw (129.6.80.254) * 4ms 3ms
(129.6.1.245) 4ms 3ms *
(129.6.2.252) 5ms 5ms 4ms
```

Which of the following commands causes the results above?

- A - ping
- B - arp
- C - nslookup
- D - traceroute

Answer: D

Question: 37

When a user authenticates using a Novell Directory Service login, the following:

OU = Managers. OU = Middle. 0 = Joe is known as the user:

- A - preferred server.
- B - Novell Directory Service schema.
- C - context.
- D - FQDN (Fully Qualified Distinguished Name).

Answer: C

Question: 38

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

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D - netstat

Answer: C

Question: 39

The output of a ping command produces the error estimation host unreachable.? What is the cause of this message?

- A - The host is in another country
- B - The host is on the same subnet.
- C - A router along the path is misconfigured.
- D - A router is configured as the default gateway.

Answer: C

Question: 40

An administrator has added a new DNS (Domain Name Service) server for fault tolerance in a network. If the administrator wants the DHCP (Dynamic Host Configuration Protocol) clients to use the new server, they should configure:

- A - a static IP (Internet Protocol) on the client and add the server IP (Internet Protocol) to the DNS (Domain Name Service) list.
- B - the DHCP (Dynamic Host Configuration Protocol) server to provide the setting to the clients.
- C - the DHCP (Dynamic Host Configuration Protocol) server to increase lease expiration time.
- D - the DHCP (Dynamic Host Configuration Protocol) client to increase lease expiration time.

Answer: B

Question: 41

While reviewing network traffic statistics, technicians have noticed that there is an abnormally high amount of DNS (Domain Name Service) traffic. What recommendation would help reduce traffic?

- A - Increase the TTL (Time to Live) on the DNS (Domain Name Service) servers
- B - Decrease the TTL (Time to Live) on the DNS (Domain Name Service) servers
- C - Increase the DHCP (Dynamic Host Configuration Protocol) lease expiration time on the DHCP (Dynamic Host Configuration Protocol) servers
- D - Decrease the DHCP (Dynamic Host Configuration Protocol) lease expiration time on the DHCP (Dynamic Host Configuration Protocol) servers

Answer: A

Question: 42

A straight Category 3 cable is being used to connect two routers. The link lights on the two routers are solid green, and network traffic is being halted. Which of the following is an explanation of the problem?

- A - There is a break in the cable.
- B - A Category 5 cable is needed.
- C - A crossover cable is needed.
- D - The routers are different brands.

Answer: C

Question: 43

A home user switches from dial-up Internet access to PPPoE (Point-to-Point Protocol over Ethernet) DSL (Digital Subscriber Line) service. When attempting to send e-mail, an error message stating relay forbidden? appears. The e-mail is not sent even though the user can receive e-mail. What action must the user take to successfully send e-mail from their account?

- A - Change the outgoing SMTP (Simple Mail Transfer Protocol) server address to their DSL (Digital Subscriber Line) provider
- B - Make sure that the DSL (Digital Subscriber Line) provider e-mail server allows SMTP (Simple Mail Transfer Protocol)
- C - Change the default protocol on the user e-mail client to POP3 (Post Office Protocol version 3)
- D - Make sure their DSL (Digital Subscriber Line) provider modem is not blocking SMTP (Simple Mail Transfer Protocol) traffic

Answer: A

Question: 44

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

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

Answer: A

Question: 45

A network engineer is setting up a firewall connected to the Internet and has chosen to block all ports below 100. As a result of this change, which of the following protocols will result in calls from users?

- A - NTP (Network Time Protocol)
- B - NNTP (Network News Transport Protocol)
- C - POP3 (Post Office Protocol version 3)
- D - HTTP (Hypertext Transfer Protocol)

Answer: D

Question: 46

Given an IP (Internet Protocol) address of a web server, which of the following commands is used to find the name of the web server?

- A - arp
- B - netstat
- C - dig
- D - echo

Answer: C

Question: 47

A company 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

Answer: C

Question: 48

A star network that uses several cable types must use which hub type in order to accommodate all client machines?

- A - Active hub
- B - Passive hub
- C - Multiport repeater hub
- D - Hybrid hub

Answer: D

Question: 49

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 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 receive port allows. Lower the buffer threshold limits to correct levels.
- C - The router 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 registry to disallow the offending IP (Internet Protocol) source

from connecting again.

Answer: A

Question: 50

A network administrator wants to improve the management of their IP (Internet Protocol) addresses. Which of the following can be implemented?

- A - TCP / IP (Transmission Control Protocol / Internet Protocol)
- B - DHCP (Dynamic Host Configuration Protocol)
- C - NetBIOS (Network Basic Input / Output System)
- D - NFS (Network File System)

Answer: B

Question: 51

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

Answer: B

Question: 52

Several Win9x clients are connected on a LAN (Local Area Network), and they can all ping each other. One of the computers cannot browse any file or printer shares on the Windows based network. Which command would be useful in determining the problem?

- A - traceroute
- B - nbtstat
- C - netstat
- D - ifconfig

Answer: B

Question: 53

A small remote office was set up at a construction site. Clients cannot connect to the home office network. The administrator determines that the clients need to obtain IP (Internet Protocol) addresses. Which protocol must be enabled on the router?

- A - ARP (Address Resolution Protocol)
- B - SNMP (Simple Network Management Protocol)
- C - DHCP (Dynamic Host Configuration Protocol)
- D - DLC (Data Link Control)

Answer: C

Question: 54

A network user has complained that after logging into their system properly, they are unable to see the mapped network shares that were assigned in their user profile. Which of the following explains the problem?

- A - The user has been using an old password and needs to update it to provide access to new shares.
- B - The user has been using quick logon but should instead use logon and restore network connections.
- C - The user is logging in correctly but needs to establish local mappings and save them before they are permanently stored.
- D - The user has logged in incorrectly and is being issued a default user profile which contains no shares.

Answer: B

Question: 55

When using a logical ring topology, the entire network ceases to function. What is the cause of this problem?

- A - One of the computers is using the wrong IP (Internet Protocol) address.

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- B - One of the computers is turned off.
- C - There is a physical break in the ring.
- D - There is excessive throughput on the ring.

Answer: C

Question: 56

A network administrator finds that they occasionally lose wireless connection but regain it when they move their laptop a few inches on the table. What can the administrator do to solve this problem?

- A - Install a second antenna to the access point
- B - Reduce the length of antenna extension cable
- C - Change the SSID (Service Set Identifier) on the access point
- D - Change the power setting on the access point to reduce noise

Answer: A

Question: 57

The following command `slookup 156.144.226.127?` produces this output `DNS request timed out` Timeout was 30 seconds *** can find server name for address 156.144.226.127: Timed out What is the identified problem?

- A - The server is not receiving requests on UDP (User Datagram Protocol) port 53.
- B - The requested server is busy.
- C - The resolver did not locate a resource record.
- D - The nslookup permissions are incorrectly set.

Answer: C

Question: 58

A remote office connected to a network has changed locations. The move required re-addressing all network devices in the office. The remote server is working on the remote segment properly. However, corporate users cannot connect to the remote server by host name, but can by IP (Internet Protocol) address. Which utility should be used at the corporate site to identify the cause of the problem?

- A - arp
- B - netstat
- C - tracert
- D - nslookup

Answer: D

Question: 59

Which layer of the OSI (Open Systems Interconnect) model handles formatting and code conversion?

- A - Transport
- B - Data Link
- C - Application
- D - Presentation

Answer: D

Question: 60

Which of the following options describes a valid reason for subnetting a network?

- A - To separate the network into smaller broadcast domains
- B - To minimize TCP / IP (Transmission Control Protocol / Internet Protocol) conflicts
- C - To convert from a DHCP (Dynamic Host Configuration Protocol) to static addresses
- D - To allow reception of multicast telecom traffic

Answer: A

Question: 61

The length of time a computer is allowed to use a dynamic IP (Internet Protocol) address is referred to as a:

- A - lease.
- B - window.
- C - schedule.
- D - reservation.

Answer: A

Question: 62

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Which one of the following protocols can only transport TCP / IP (Transmission Control Protocol /Internet Protocol)?

- A - PPP (Point-to-Point Protocol)
- B - RAS (Remote Access Service)
- C - VPN (Virtual Private Network)
- D - SLIP (Serial Line Internet Protocol)

Answer: D

Question: 63

Which of the following options allows for secure communication over the Internet?

- A - RAS (Remote Access Service)
- B - RDP (Remote Desktop Protocol)
- C - SLIP (Serial Line Internet Protocol)
- D - VPN (Virtual Private Network)

Answer: D

Question: 64

Given the address 00:B0:D0:5A:E1:B5, what does 5A:E1:B5 identify?

- A - The device ID (Identification)
- B - The type of device
- C - The manufacturer of the device
- D - The network address of the device

Answer: A

Question: 65

WINS (Window Internet Name Service) provides a more centralized method of name resolution than using which of the following items?

- A - SMB (Server Message Block)
- B - HOSTS files
- C - DHCP (Dynamic Host Configuration Protocol)
- D - LMHOSTS files

Answer: D

Question: 66

RADIUS (Remote Authentication Dial-In User Service) provides which functionality for remote access?

- A - Verification
- B - Encryption
- C - Addressing
- D - Tunneling

Answer: A

Question: 67

A network administrator needs to verify that the SMTP (Simple Mail Transfer Protocol) service is running on a particular server. On what port number should a Telnet session be established?

- A - 20
- B - 21
- C - 23
- D - 25

Answer: D

Question: 68

HTTPS (Hypertext Transfer Protocol Secure) uses which of the following?

- A - SSL (Secure Sockets Layer)
- B - IPSec (Internet Protocol Security)
- C - L2TP (Layer 2 Tunneling Protocol)
- D - Kerberos

Answer: A

Question: 69

What command would be used to view all of the TCP / IP (Transmission Control Protocol / Internet Protocol) configuration on a Windows 96 client?

- A - ifconfig/all

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- B - winipcfg/all
- C - ipconfig/TCP (Transmission Control Protocol) release
- D - winipcfg/release

Answer: B

Question: 70

A rogue residential gateway has been installed in a network. It is running DHCP (Dynamic Host Configuration Protocol). If the computers have static IP (Internet Protocol) addresses assigned, what problems might exist on the network?

- A - There will be no Internet access.
- B - The computer IP (Internet Protocol) addresses will change.
- C - There should be no problems.
- D - There will be a routing loop between the residential gateway and the original router.

Answer: C

Question: 71

Which utility should a technician use to troubleshoot NetBIOS (Network Basic Input / Output System) over TCP / IP (Transmission Control Protocol / Internet Protocol) from Workstation A to Workstation B on a Windows network?

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

Answer: C

Question: 72

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 user computer on a 16 Mbps (Megabits per second) 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

Answer: D

Question: 73

An administrator implements packet filtering on the router between the finance department and the marketing department. The following night, a batch script runs that sends a file from the marketing server to the finance FTP (File Transfer Protocol) server, but it does not work. What should be done?

- A - The administrator should make sure port 21 is open on the router.
- B - The administrator should change the batch script to run during the day.
- C - The administrator should make sure ICMP (Internet Control Message Protocol) is enabled on the router.
- D - The administrator should set the batch script to run with elevated privileges.

Answer: A

Question: 74

A network administrator supports a LAN (Local Area Network) with ten users wired to a switch. The switch is connected to a router for Internet access. One day, a single user reports being unable to access the Internet. All other users can access the Internet. Which of the following items should the network administrator check to solve the problem?

- A - Network card of troubled machine, port on switch that uplinks to router, and patch cable from troubled machine to switch
- B - Patch cable from troubled machine to switch, port on switch the troubled machine is plugged into, and external interface of router
- C - Network card of troubled machine, port on switch that troubled machine is plugged into, and patch cable from troubled machine to switch
- D - Port on switch the troubled machine is plugged into, network card of

troubled machine, and uplink port on the switch

Answer: C

Question: 75

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.

Answer: B

Question: 76

A network has been set up for DHCP (Dynamic Host Configuration Protocol) services using a PDC (Primary Domain Controller) and BDC (Backup Domain Controller) each with a range of 192.168.0.1 to 192.168.0.254 using a class subnet of 255.255.255.0. DHCP (Dynamic Host Configuration Protocol) errors are occurring. How can the errors be resolved?

- A - Change the default subnet to 255.255.0.0 to increase the number of allowable IP (Internet Protocol) addresses to prevent collisions.
- B - The machines are holding IP (Internet Protocol) addresses in cache memory. Reboot to renew the IP (Internet Protocol) address.
- C - Configure BootP (Boot Protocol) on the server when the IP (Internet Protocol) class subnets are split prior to implementing the scope.
- D - Split the scope addresses between the servers assigning 192.168.0.1 through 192.168.0.127 for the PDC (Primary Domain Controller) and 192.168.0.128 through 192.168.0.254 for the BDC (Backup Domain Controller).

Answer: D

Question: 77

Ten workstations numbered 1 through 10 are installed sequentially on a physical bus network. The complete network has failed. Which of the following could have caused the failure?

- A - Workstation 3 is powered off.
- B - Workstations 4 and 7 use the DLC (Data Link Control) 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.

Answer: C

Question: 78

Which media type is the MOST prone to electromagnetic interference?

- A - Category 5e UTP (Unshielded Twisted Pair) cable
- B - RG-58 (Radio Grade) coaxial cable
- C - SMF (Single Mode Fiber) optic cable
- D - MMF (MultiMode Fiber) optic cable

Answer: A

Question: 79

A business with a DSL (Digital Subscriber Line) modem lost connectivity and the secretary changed one of the network settings to try to fix it. The settings are now: IP address:

128.210.5.21 Subnet mask: 255.0.0.0 Gateway: 128.210.5.1 DNS server: 128.210.5.11 Given the information above, which of the following identifies the setting that has changed?

- A - IP (Internet Protocol) address
- B - Subnet mask
- C - Gateway
- D - DNS (Domain Name Service) server

Answer: B

Question: 80

A workstation presents an error message to a user. The message states that duplicate IP (Internet Protocol) has been detected on the network. After developing a hypothesis, what should the NEXT step

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be according to the standard troubleshooting model?

- A - Test and observe an action plan
- B - Gather facts surrounding the error
- C - Implement an action plan
- D - Document solution and process

Answer: C

Question: 81

Which cable would users utilize to workstation when using 100BASE-TX?

- A - Category 5 crossover cable
- B - Coaxial cable
- C - Category 3 straight cable
- D - Category 5 straight cable

Answer: A

Question: 82

connect a client workstation directly to another client

Upon which devices can NAT (Network Address Translation) be used?

- A - Hub
- B - Bridge
- C - Switch
- D - Firewall

Answer: D

Question: 83

Connecting a LAN (Local Area Network) to a mainframe can be accomplished using a:

- A - Bridge.
- B - Gateway.
- C - Transceiver.
- D - Firewall.

Answer: B

Question: 84

All of the following are terminated on a punch down block EXCEPT:

- A - STP (Shielded Twisted Pair) cable.
- B - MMF (MultiMode Fiber) optic cable.
- C - UTP (Unshielded Twisted Pair) cable.
- D - Category 3 cable.

Answer: B

Question: 85

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)

Answer: C

Question: 86

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

Answer: C

Question: 87

Which one of the following servers provides web caching services?

- A. DNS (Domain Name Service)
- B. DHCP (Dynamic Host Configuration Protocol)
- C. Proxy

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D. File

Answer: C

Question: 88

How many connections have to be maintained on a company's mesh network with eight nodes?

A. 8

B. 16

C. 28

D. 32

Answer: C

Question: 89

At which layer of the OSI (Open Systems Interconnect) model does UDP (User Datagram Protocol) reside?

A. Session

B. Network

C. Physical

D. Transport

Answer: D

Question: 90

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)

Answer: C

Question: 91

What is a MAC (Media Access Control) address?

A. It is an address assigned to enable routing over a WAN (Wide Area Network).

B. It is an address assigned to a TCP (Transmission Control Protocol) port.

C. It is an address assigned to a DNS (Domain Name Service) entry.

D. It is an address assigned to a NIC (Network Interface Card).

Answer: D

Question: 92

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.

Answer: D

Question: 93

If a user needs to know the NetBIOS (Network Basic Input / Output System) name of the server that they are connected to, which of the following utilities will provide this information?

A. nbtstat

B. tracert

C. nslookup

D. netstat

Answer: A

Question: 94

A network gateway is required to share a printer for users and has been implemented by the systems administrator. An account was created called NTGATEWAY on the Windows server and the NetWare server and users have been assigned gateway privileges. How are accounts assigned to limit certain users from having more privileges than others to modify print jobs?

A. There is only one account created on each server and all users have the same rights, so this

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request cannot be fulfilled.

- B. Each user must have individual accounts set up on the Novell server to allow specific printer rights.
- C. Each user must have individual accounts set up on the Windows server to allow specific printer rights.
- D. Separate print queues must be created for each Windows user to manage rights levels.

Answer: A

Question: 95

Which digital interface device is used to connect to a local service providers digital T1 (T-Carrier Level 1) or E1 network?

- A. NIC (Network Interface Card)
- B. ISDN (Integrated Services Digital Network)
- C. CSU / DSU (Channel Service Unit / Data Service Unit)
- D. WAP (Wireless Access Point)

Answer: C

Question: 96

A network administrator implements four VLANs (Virtual Local Area Network) on a switch. Which device will be required to pass traffic among the VLANs (Virtual Local Area Network)?

- A. Router
- B. No additional device needed
- C. Another switch
- D. A hub

Answer: A

Question: 97

Which IEEE (Institute of Electrical and Electronics Engineers) 802.x standard defines the operation of the LLC (Logical Link Control) sublayer of the OSI (Open Systems Interconnect) models Data Link layer?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

Question: 98

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).

Answer: B

Question: 90

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)

Answer: A

Question: 91

Which digital interface device is used to connect to a local service providers digital T1 (T-Carrier Level 1) or E1 network?

- A. NIC (Network Interface Card)
- B. ISDN (Integrated Services Digital Network)
- C. CSU / DSU (Channel Service Unit / Data Service Unit)
- D. WAP (Wireless Access Point)

Answer: C

Question: 92

A user complains that they can no longer access resources on the network. The user is unable to ping other nodes and ipconfig returns an IP (Internet Protocol) address that is not in the correct subnet. What is the problem?

- A. The DHCP (Dynamic Host Configuration Protocol) server has lost connection to the DNS (Domain Name Service).
- B. Someone has enabled an additional DHCP (Dynamic Host Configuration Protocol) server.
- C. The WINS (Windows Internet Name Service) is offline.
- D. The DNS (Domain Name Service) is offline.

Answer: B

Question: 93

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

Answer: D

Question: 94

A user at a workstation within a workgroup tries to access a file server in the domain "CompTIA." The user exists in the "CompTIA" domain as "jsmith." Which login credential should be used to access the file server?

- A. jsmith
- B. \\jsmith
- C. \\CompTIA\jsmith
- D. CompTIA\jsmith

Answer: D

Question: 95

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

Answer: C

Question: 96

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.

Answer: C

Question: 97

Which standard covers the methods for performing authentication services for remote access to a central LAN (Local Area Network)?

- A. 802.5
- B. 802.1x
- C. 802.3
- D. 802.4

Answer: B

Question: 98

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)

Answer: B

Question: 99

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.

Answer: B

Question: 100

Which command generated the following output? Active Connections Proto Local Address Foreign Address State

```
TCP CompA:3006 192.168.0.2:Microsoft Established TCP CompA:3021 192.168.0.246:HTTP Established
```

- A. nbtstat
- B. netstat
- C. arp a
- D. ipconfig

Answer: B

Question: 101

A packet filtering firewall operates at which layers of the OSI (Open Systems Interconnect) model?

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

Answer: B

Question: 102

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).

Answer: B

Question: 103

Which networking device works at the upper three layers of the OSI (Open Systems Interconnect) and connects networks with different architectures?

- A. Router
- B. Firewall
- C. Modem
- D. Gateway

Answer: D

Question: 104

There is a suspected SMTP (Simple Mail Transfer Protocol) virus on the workstation. E-mail programs are not currently running. Which of the following utilities should be run to see if there are any open SMTP (Simple Mail Transfer Protocol) sockets?

- A. nbtstat

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

Answer: B

Question: 105

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.

Answer: A

Question: 106

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

Answer: B

Question: 107

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

Answer: D

Question: 108

A client accessing a network share folder has authenticated into the system and has full access rights to a folder share. But after opening the file they find they cannot modify the files contents. What is the likely cause?

- A. The group rights filter has been changed through the GPO (Group Policy Object) to disallow file access.
- B. The file requested has been pulled from cache memory and is not writeable.
- C. The file has been opened by another user and is open for read only.
- D. The file has been pulled from the backup source not the tree directory.

Answer: C

Question: 109

A technician is assisting their senior technician with terminating a line that was extending the demarcation point for a new DSL (Digital Subscriber Line) circuit. Which tool would be needed?

- A. Multimeter
- B. Optical tester
- C. Punch down tool
- D. BERT (Bit-Error Rate Test)

Answer: C

Question: 110

PAP (Password Authentication Protocol) secures PPP (Point-to-Point Protocol) sessions by:

- A. adding a secret key to the password.
- B. adding a secret key to the username password.
- C. double encrypting the username and password.

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D. passing a username and password in plaintext.

Answer: D

Question: 111

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.

Answer: B

Question: 112

When installed on a Windows 2000 server, which one of the following allows a Windows-only client to access files on a NetWare 4.1 server?

- A. CSNW (Client Services for NetWare)
- B. GSNW (Gateway Services for NetWare)
- C. Novell NetWare client
- D. DNS (Domain Name Service)

Answer: B

Question: 113

What part of an Ethernet MAC (Media Access Control) address designates the manufacturer of the NIC (Network Interface Card)?

- A. bytes 1-3
- B. bytes 1-6
- C. bytes 4-6
- D. bytes 4-8

Answer: A

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