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CertifyMe N10-004

Exam A

QUESTION 1
Which of the following tools allows an administrator to determine the MAC address of another computer?

A. ping
B. arp
C. ifconfig
D. ipconfig

Correct Answer: B
Section: (none)
Explanation

QUESTION 2
Which of the following tools allows an administrator to test connectivity between two computers?

A. route
B. ping
C. ipconfig
D. ifconfig

Correct Answer: B
Section: (none)
Explanation

QUESTION 3
Which of the following ports will allow a technician to transfer configuration data to a network switch?

A. 69
B. 110
C. 389
D. 3359

Correct Answer: A
Section: (none)
Explanation

QUESTION 4
Which of the following is an interior routing protocol that is used to provide routing within autonomous systems?

A. ARP
B. IGP
C. BGP

D. EGP

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
A technician needs to manage a switch by using the management port on the back of the switch. Which of the following cables would the technician use?

A. Straight
B. Console
C. Crossover
D. Loopback

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
Which of the following has the HIGHEST data rate speed?

A. T1
B. ADSL
C. SDSL
D. OC-3

Correct Answer: D
Section: (none)
Explanation

QUESTION 7
A technician would like to separate the HR department's workstations from the other workstations at the company. Which of the following network topologies should be used?

A. Peer to peer
B. Subnetting
C. VLAN
D. VPN

Correct Answer: C
Section: (none)
Explanation

QUESTION 8
Which of the following holds multiple connections and is usually maintained by the telephone company?

A. Demarc
B. IDF
C. MDF
D. 110 block

Correct Answer: A
Section: (none)
Explanation

QUESTION 9
Which of the following allows TCP/IP packets to be analyzed for possible threats?

A. Proxy server
B. IDS
C. CSU
D. DNS server

Correct Answer: B
Section: (none)
Explanation

QUESTION 10

An administrator receives a contract for a server install at a new building. Which of the following should be completed after installing the server?

A. Log the administrator password used
B. Test the air temperature
C. Update the network diagram
D. Review the evacuation procedures

Correct Answer: C
Section: (none)
Explanation

QUESTION 11
An administrator wants to list all the network connections to and from the server. Which of the following commands would MOST likely be used?

A. traceroute
B. ping
C. ipconfig
D. netstat

Correct Answer: D
Section: (none)
Explanation

QUESTION 12

An administrator wants to test the network MTU. Which of the following commands allows different size packets to be sent?

A. netstat
B. traceroute
C. nbtstat
D. ping

Correct Answer: D
Section: (none)
Explanation

QUESTION 13
An administrator finds a phone line but does not know where the line goes or if it is active. Which of the following can be used to test if it is active?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 14
Which of the following is used to verify configuration updates on a firewall?

A. Signature identification
B. Access control lists
C. Scanning services
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D. Content filtering

Correct Answer: A
Section: (none)
Explanation

QUESTION 15
Which of the following methods can move files in clear text and can be easily intercepted?

A. RSH
B. SNMP
C. FTP
D. TELNET

Correct Answer: C
Section: (none)
Explanation

QUESTION 16
A user receives an email stating that their account was compromised and there is a need to verify account credentials by submitting the correct information on a website. Which of the following security threats is occurring?

A. Phishing
B. Smurf attack
C. Denial of service
D. Man-in-the-middle

Correct Answer: A
Section: (none)
Explanation

QUESTION 17
Which of the following protocols uses UDP to transfer files?

A. FTP
B. SFTP
C. SMTP
D. TFTP

Correct Answer: D
Section: (none)
Explanation

QUESTION 18
Which of the following protocols allow the set up, teardown and streaming of VoIP traffic? (Select TWO).

A. NTP
B. VNC
C. RTP
D. SIP
E. TLS

Correct Answer: CD
Section: (none)
Explanation

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QUESTION 19
Which of the following routing protocols are unable to advertise CIDR networks? (Select TWO).

A. OSPF
B. RIP
C. EIGRP
D. IGRP
E. RIPv2

Correct Answer: BD
Section: (none)
Explanation

QUESTION 20
Which of the following networks would MOST likely require EGP routing?

A. Networks that use OSPF in addition to static routes
B. Networks with classless Internet domain routing
C. Networks with multiple ISPs
D. Networks that use encryption

Correct Answer: C
Section: (none)
Explanation

QUESTION 21
Which of the following sizes is the fixed cell length in ATM?

A. 8 bytes
B. 53 bytes
C. 64 kilobytes
D. 128 kilobytes

Correct Answer: B
Section: (none)
Explanation

QUESTION 22
Which of the following is equipment provided by the telephone company that provides remote diagnostic and loopback services for subscriber lines?

A. 66 block
B. Demarc
C. Smart jack
D. 110 block

Correct Answer: C
Section: (none)
Explanation

QUESTION 23
A technician wants to use an existing DHCP server for three additional VLANs. Which of the following features needs to be configured to allow for this addition?

A. DHCP server
B. Proxy server
C. Repeater
D. DHCP relay

Correct Answer: D
Section: (none)
Explanation

QUESTION 24
Which of the following devices should an administrator connect to a protocol analyzer in order to collect all of the traffic on a LAN segment?

A. Hub
B. VLAN
C. Router
D. Server

Correct Answer: A
Section: (none)
Explanation

QUESTION 25
Which of the following devices separates a LAN segment into two collision domains, without affecting the broadcast domain?

A. Firewall
B. Bridge
C. Repeater
D. Router

Correct Answer: B
Section: (none)
Explanation

QUESTION 26
In the 2.4GHz range, which of the following channel combinations are non-overlapping?

A. 1, 6, 11
B. 2, 7, 10
C. 2, 8, 13
D. 3, 6, 9

Correct Answer: A
Section: (none)
Explanation

QUESTION 27
Measuring and recording network performance during normal operations to compare later changes is called:

A. stress testing.
B. regression testing.
C. leveling.
D. baselining.

Correct Answer: D
Section: (none)
Explanation

QUESTION 28

An administrator monitors the performance of a network router and wants to determine if the traffic load is greater than normal. Which of the following should the administrator do to discover this?

A. Review the logical network diagram for default connection speeds.
B. Compare current information with the router baseline.
C. Clear the interface buffers and reset packet counts.
D. Perform interface stress tests to see if performance is degraded.

Correct Answer: B
Section: (none)
Explanation

QUESTION 29
A technician receives an urgent call that the switch in accounting is down. Which of the following should the technician do FIRST to troubleshoot this issue?

A. Identify symptoms and problems.
B. Document the process and solutions.
C. Establish the most probable cause.
D. Escalate if necessary.

Correct Answer: A
Section: (none)
Explanation

QUESTION 30
Which of the following utilities would be used to display a NIC's cache of MAC addresses?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 31
Which of the following utilities would be used to display a network's MX record?

A. dig
B. nbtstat
C. traceroute

D. route

Correct Answer: A
Section: (none)
Explanation

QUESTION 32
Which of the following utilities can be used to list the routing table?

A. ipconfig
B. nslookup
C. netstat
D. dig

Correct Answer: C
Section: (none)
Explanation

QUESTION 33
Which of the following tools would an administrator use to identify opens and shorts?

A. Ohmmeter
B. Protocol analyzer
C. Cable tester
D. Multimeter

Correct Answer: C
Section: (none)
Explanation

QUESTION 34
An administrator suspects that an incorrect POTS line is carrying the DSL signal. Which of the following will help diagnose this issue?

A. Multimeter
B. Toner probe
C. Protocol analyzer
D. Butt set

Correct Answer: D
Section: (none)
Explanation

QUESTION 35
Which of the following are common VPN transports? (Select TWO).

A. RDP
B. VNC
C. SSL

D. PPTP

E. RAS

Correct Answer: CD
Section: (none)
Explanation

QUESTION 36
A user receives a call from someone reporting to be from the help desk who asks for their password. The user discovers later that the caller did not work for the help desk. Which of the following describes this type of exploit?

A. Phishing scam

B. Social engineering

C. Man-in-the-Middle

D. Shoulder surfing

Correct Answer: B
Section: (none)
Explanation

QUESTION 37
A technician needs to ensure that a specific application on a single home user's computer receives

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Internet traffic reliably. The home network provides access to three other users and the application relies on a specific protocol. Which of the following should the technician use?

A. DHCP

B. PAT

C. Proxy

D. IPX

Correct Answer: B
Section: (none)
Explanation

QUESTION 38
Interior gateway protocols are used for resolving routes:

A. between networks.

B. within routers.

C. within networks.

D. between WAPs.

Correct Answer: C
Section: (none)
Explanation

QUESTION 39
Which of the following is a high performance WAN protocol that operates at the physical and data link layers of the OSI model?

A. 802.11g
B. Asynchronous transfer mode
C. Asymmetric digital subscriber
D. Frame relay

Correct Answer: D
Section: (none)
Explanation

QUESTION 40
Which of the following should be used to ensure that all packets are received by every connected device?

A. Hub
B. Router
C. Switch
D. Firewall

Correct Answer: A
Section: (none)
Explanation

QUESTION 41
The primary purpose of an IPS is which of the following?

A. Relay wireless traffic
B. Stop or log intrusions
C. Detect or route packets
D. Route internal network traffic
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Correct Answer: B
Section: (none)
Explanation

QUESTION 42
A common technique used to prevent the unauthorized network devices from sending traffic across a network is port:

A. spanning.
B. address translation.
C. mirroring.
D. authentication.

Correct Answer: D
Section: (none)
Explanation

QUESTION 43
Physical and logical network diagrams are used for which of the following configuration management goals?

A. Track DHCP distribution
B. Compare MAC and IP addresses
C. Document Internet access history
D. Identify network devices

Correct Answer: D
Section: (none)
Explanation

QUESTION 44
An administrator is trying to isolate the location of a persistent connectivity problem caused by a faulty NIC.
Which of the following diagrams would assist the technician in finding the machine that is causing the problem?

A. Physical and logical network
B. Physical network
C. Logical network
D. DHCP tables and DNS records

Correct Answer: A
Section: (none)
Explanation

QUESTION 45
After gathering preliminary information during a network outage, which of the following is the NEXT step a
technician should take in troubleshooting the outage?

A. Determine if anything has changed.
B. Identify the affected network areas.
C. Determine if escalation is necessary.
D. Create an action plan.

Correct Answer: B
Section: (none)
Explanation

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QUESTION 46
An administrator needs to terminate network cables that have just been installed in the main communications
closet. Which of the following tools is required?

A. Multimeter
B. Snips
C. Toner probe
D. Punch down tool

Correct Answer: D

Section: (none)
Explanation

QUESTION 47
Hardware locks, keypads on entry doors, badge readers, and biometric readers are all examples of which of the following security types?

A. Physical

B. Logical
C. Software
D. Authentication

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48
Which of the following security devices would not allow abnormal traffic to enter the network?

A. Load balancer
B. IPS
C. Layer 2 switch
D. IDS

Correct Answer: B
Section: (none)
Explanation

QUESTION 49
Which of the following security threats involves making phone calls?

A. Phishing
B. Vishing
C. DDoS
D. Xmas attack

Correct Answer: B
Section: (none)
Explanation

QUESTION 50

Which of the following logical network topologies is used to provide a secure connection across the Internet?

A. VLAN
B. Peer to Peer
C. VTP
D. VPN

Correct Answer: D
Section: (none)
Explanation

QUESTION 51
In the OSI model, which of the following layers would be the cause of a session time-out while browsing the web?

A. Layer 2
B. Layer 3
C. Layer 5
D. Layer 7

Correct Answer: C
Section: (none)
Explanation

QUESTION 52
Which of the following network hardware allows the MOST network traffic collisions?

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

Correct Answer: B
Section: (none)
Explanation

QUESTION 53
Which of the following does a star ring topology use for data transfer?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 54

On a Windows network, users are reporting that they cannot access any network resources. The users can ping the IP address and connect to the network resource using the IP address. Which of the following is the cause of the problem?

A. The file server is offline.
B. The DNS server is not resolving correctly.
C. The DHCP server is not assigning correct IP addresses.
D. The domain controller is not responding.

Correct Answer: B
Section: (none)
Explanation

QUESTION 55
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Which of the following is a valid IP address in the public addressing scheme?

A. 10.20.1.1
B. 168.192.10.1
C. 233.10.20.1
D. 172.20.10.1

Correct Answer: B
Section: (none)
Explanation

QUESTION 56
Which of the following protocols uses a three-way handshake process before establishing a connection?

A. UDP
B. TFTP
C. DNS
D. TCP

Correct Answer: D
Section: (none)
Explanation

QUESTION 57
Which of the following routing protocols is strictly a distance vector protocol?

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

Correct Answer: B
Section: (none)
Explanation

QUESTION 58
An administrator needs to know the workstation name of a user who called in for support in order to remotely manage it. After calling the user and having the user open a command prompt, which of the following commands would the administrator ask the user to type?

A. netstat
B. ifconfig
C. hostname
D. ping

Correct Answer: C
Section: (none)
Explanation

QUESTION 59
A section of the building has been having intermittent connectivity problems lately. An action plan and solution has been created. Which of the following steps would an administrator perform NEXT?

A. Document the solution and process.
B. Establish the most probable cause.
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C. Implement and test the solution.
D. Identify additional symptoms and problems.

Correct Answer: C
Section: (none)
Explanation

QUESTION 60
Several users from the same location are reporting problems accessing the intranet server. An administrator has verified that no other remote areas are having issues connecting to the same server. Which of the following steps should the administrator perform NEXT?

A. Determine what has changed.
B. Test a solution.
C. Establish the most probable cause.
D. Escalate the problem to the right section.

Correct Answer: A
Section: (none)
Explanation

QUESTION 61
SSL VPN is used to create:

A. secure access lists.
B. encrypted email messages.
C. a secure tunnel.
D. remote access for everybody.

Correct Answer: C
Section: (none)
Explanation

QUESTION 62
Which of the following mitigation techniques would an administrator apply to a device in order to restrict remote access?

A. Disable TELNET
B. Disable IGMP snooping
C. Enable TELNET but not SSL
D. Disable ICMP/ping on device

Correct Answer: A
Section: (none)
Explanation

QUESTION 63
Which of the following allows a WAP to be installed in a location where there are no power outlets available?

A. Port authentication
B. PoE
C. PPTP
D. Trunking

Correct Answer: B
Section: (none)
Explanation

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QUESTION 64
Which of the following is primarily used for VoIP?

A. TLS
B. RDP
C. NTP
D. RTP

Correct Answer: D
Section: (none)
Explanation

QUESTION 65
A technician is reporting wireless transmission speeds of 300Mbps. Which of the following wireless standards is being used?

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

D. 802.11n

Correct Answer: D
Section: (none)
Explanation

QUESTION 66
Which of the following devices is MOST likely to have a bridge built-in?

A. Media converter
B. Hub
C. WAP
D. NIC

Correct Answer: C
Section: (none)
Explanation

QUESTION 67
Which of the following devices would MOST likely integrate a DHCP server?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 68
Which of the following devices can be configured to block ports?

A. DHCP server
B. Hub
C. Content filter
D. Basic firewall
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Correct Answer: D
Section: (none)
Explanation

QUESTION 69
An administrator would like to know the name of the workstation that is being repaired. Which of the following commands, without parameters, will provide this information?

A. hostname
B. ipconfig
C. netstat

D. ping

Correct Answer: A
Section: (none)
Explanation

QUESTION 70
The selection of the correct punch down tool to use depends on which of the following?

A. Connector type
B. Demarcation point location
C. Block type
D. Switch location

Correct Answer: C
Section: (none)
Explanation

QUESTION 71
Which of the following is required if ports from VLANs on two separate switches need to broadcast to each other?

A. Port mirroring
B. VPN
C. Trunking
D. Port authentication

Correct Answer: C
Section: (none)
Explanation

QUESTION 72
Which of the following encryption technologies would be the WEAKEST method to use when securing a new SOHO wireless network?

A. WPA2
B. WEP128
C. WPA
D. WEP64

Correct Answer: D
Section: (none)
Explanation

QUESTION 73
A technician is setting up a new wireless network in an office where there are existing APs

broadcasting on channels 6 and 11. Which of the following would be the BEST channel to use for the new network to keep interference to a minimum?

A. 1
B. 3
C. 10
D. 22

Correct Answer: A
Section: (none)
Explanation

QUESTION 74
An administrator is looking to install new WAPs into remote locations for increased network capacity. Which of the following technologies would the equipment need to support if accessible power outlets were at a minimum?

A. VLAN
B. MAC filtering
C. PoE
D. WPA

Correct Answer: C
Section: (none)
Explanation

QUESTION 75
A demarcation point is usually installed and managed by which of the following providers?

A. Web host provider
B. VoIP company
C. Telephone company
D. Hardware manufacturer

Correct Answer: C
Section: (none)
Explanation

QUESTION 76
Which of the following devices transmits timed broadcasts onto an active network?

A. Bridge
B. Unmanaged switch
C. DHCP client
D. Firewall

Correct Answer: C
Section: (none)
Explanation

QUESTION 77
A company has recently received a new ADSL backup Internet connection. Which of the following will MOST likely be used between the modem and the ISP?

A. PPPoE
B. RAS
C. IPSec
D. MSCHAP

Correct Answer: A
Section: (none)
Explanation

QUESTION 78
A network at a small business utilizes a star topology and is experiencing frequent collisions among data packets. Which of the following devices is MOST likely being used?

A. Unmanaged switch
B. Hardware firewall
C. Hub
D. Managed switch

Correct Answer: C
Section: (none)
Explanation

QUESTION 79
A NIC capable of utilizing "auto-sense" for a given connection is actually configuring which settings dynamically on its own? (Select TWO).

A. Link duplex
B. MAC address
C. Cable type
D. Link speed
E. Link latency

Correct Answer: AD
Section: (none)
Explanation

QUESTION 80
Computers on a small network are not able to receive new addresses from the DHCP server. However, the administrator has checked the server and ensured it is connected, responding, and functional. Which of the following is the MOST likely problem in this scenario?

A. The DHCP server has an incorrect gateway configured.
B. The DHCP server was incorrectly configured with a six hour lease time on addresses.
C. The DHCP server was incorrectly configured with non-expiring lease time on addresses.
D. The DNS server is no longer functional and internal name-address resolution is down.

Correct Answer: C
Section: (none)
Explanation

QUESTION 81
Keyword and blacklist filtering would be handled at which level in a network?

A. Layer 2 managed switch
B. DHCP server
C. Hardware firewall
D. Bridge

Correct Answer: C
Section: (none)
Explanation

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QUESTION 82
A server keeps rebooting at various times throughout the day. Which of the following tools would BEST help to diagnose this issue?

A. Multimeter
B. Temperature monitor
C. Cable tester
D. Toner probe

Correct Answer: B
Section: (none)
Explanation

QUESTION 83
Which of the following tools is BEST used to test for proper grounding of a cable or circuit?

A. Multimeter
B. UPS
C. Protocol analyzer
D. Cable tester

Correct Answer: A
Section: (none)
Explanation

QUESTION 84
When verifying a new wireless installation the administrator is unable to see a wireless signal with any wireless laptop. The MOST likely problem is:

A. the SSID is not set to broadcast.
B. an incorrect channel is being used.
C. incorrect client security settings are configured.
D. incorrect client configuration on the laptops.

Correct Answer: A

QUESTION 85
An administrator has just completed creating a new subnet. Users on the new subnet are unable to access the network. Which documentation will BEST provide information to help identify the issue?

A. Policies
B. Procedures
C. Physical network diagram
D. Logical network diagram

Correct Answer: D
Section: (none)
Explanation

QUESTION 86
An administrator is concerned about users utilizing the company's wireless signal with their personal laptops. Which of the following is the BEST method to use to prevent unauthorized devices from using the company's wireless network?

A. Secure VPN
B. MAC filtering
C. IP filtering
D. Static IP addresses

Correct Answer: B
Section: (none)
Explanation

QUESTION 87
An administrator is unable to ping a workstation. Which of the following tools would BEST help to resolve the issue?

A. Cable tester
B. Multimeter
C. Toner probe
D. Protocol analyzer

Correct Answer: A
Section: (none)
Explanation

QUESTION 88
Which of the following devices only monitors traffic being sent to a host?

A. Firewall
B. IDS

C. IPS

D. Proxy server

Correct Answer: B
Section: (none)
Explanation

QUESTION 89
Which of the following can be configured to restrict specific ports and IP addresses from accessing the internal network? (Select TWO).

A. Layer 2 switch

B. MAC address filtering

C. ACLs

D. IIS server

E. Port scanner

F. Firewall

Correct Answer: CF
Section: (none)
Explanation

QUESTION 90
Which of the following authentication solutions also provides AAA and uses TCP?

A. TACACS+

B. Kerberos

C. RADIUS

D. RAS

Correct Answer: A
Section: (none)
Explanation

QUESTION 91
When the use of a smart card, pin number, and pass phrase is required to login to a system, which of the following types of authentication is being used?

A. Single sign on

B. PKI

C. Two factor authentication

D. Multi-factor authentication

Correct Answer: D
Section: (none)
Explanation

QUESTION 92
Which of the following would be used to test out the security of a specific network by allowing it to receive

security attacks?

A. Honeynet
B. Honeypot
C. Vulnerability scanner
D. Network based IDS

Correct Answer: A
Section: (none)
Explanation

QUESTION 93
The protocols that use a three way handshake to transfer information can be found within which layer of the OSI model?

A. Layer 2
B. Layer 3
C. Layer 4
D. Layer 5

Correct Answer: C
Section: (none)
Explanation

QUESTION 94
Which of the following metrics indentifies the number of connections that is between two devices?

A. Hop count
B. MTU
C. Latency
D. Bandwidth

Correct Answer: A
Section: (none)
Explanation

QUESTION 95

The network technician is troubleshooting a network issue by implementing a new security device. After installing and configuring the device, which of the following steps should the technician take NEXT?

A. Verify full system functionality.
B. Identify the main problem and question the user.
C. Document their findings, actions, and outcomes.
D. Escalate the issue to upper management.

Correct Answer: A
Section: (none)
Explanation

QUESTION 96
Which of the following protocols is commonly used for VoIP technology?

A. Telnet
B. SMTP
C. SIP
D. SNMP

Correct Answer: C
Section: (none)
Explanation

QUESTION 97
A network technician is troubleshooting a problem and has just established a plan of action to resolve the problem. Which of the following is the NEXT step in the troubleshooting methodology?

A. Verify full system functionality and if applicable implement preventative measures.
B. Implement the solution or escalate as necessary.
C. Document findings, actions, and outcomes.
D. Establish a theory of probable cause (e.g. question the obvious).

Correct Answer: B
Section: (none)
Explanation

QUESTION 98
Which of the following ports is the default telnet port?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 99
A bridge handles frames at which of the following layers of the OSI model?

A. Network
B. Session
C. Transport
D. Data Link
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Correct Answer: D
Section: (none)
Explanation

QUESTION 100
A company is about to install a second network connection with a new ISP. Which of the following routing protocols is the BEST choice?

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

Correct Answer: B
Section: (none)
Explanation

Exam B

QUESTION 1
Which of the following layers of the OSI model maps to the Network Interface layer of the TCP stack? (Select TWO).

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

Correct Answer: AC
Section: (none)
Explanation

QUESTION 2
A network technician is attempting to map a FQDN to an internal server at the address of 10.0.0.15 without NAT/PAT. Which of the following is the reason this will ultimately not work?

A. This is a private address which cannot be seen by external users.
B. The address does not have the appropriate subnet mask assigned.
C. This is a public address which can only be seen by internal users.
D. This is a private address which can only be seen by external users.

Correct Answer: A
Section: (none)
Explanation

QUESTION 3
A network technician blocks access to ports 25, 110, and 143 on the firewall. Which of the following application services will be blocked due to this?

A. Email sending and receiving
B. Domain Name Service
C. FTP access to external servers
D. Remote desktop access

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 4
Which of the following is the broadcast address for a network defined as 192.168.0.0/24?

A. 192.168.0.255
B. 192.168.0.1
C. 192.168.0.0
D. 192.168.0.253

Correct Answer: A
Section: (none)
Explanation

QUESTION 5
Which of the following ports would have to be allowed through a firewall to allow SNMP traffic to pass on its default port? (Select TWO).

A. 22
B. 23
C. 143
D. 161
E. 162
F. 8080

Correct Answer: DE
Section: (none)
Explanation

QUESTION 6
A computer configured to use DHCP cannot locate a DHCP server. Automatic Private IP Address (APIPA) will assign which of the following addresses?

A. 172.16.1.25
B. 169.254.1.25
C. 10.16.1.25
D. 192.168.1.25

Correct Answer: B
Section: (none)
Explanation

QUESTION 7
A user reports that when the phone rings in their house the wireless on their laptops becomes disconnected. Which of the following BEST describes the issue?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 8
For an enterprise to use one of the reserved private IP address ranges, as best practice they should coordinate with:

A. their legal department.

B. IANA

C. IEEE

D. their IT department.

Correct Answer: D
Section: (none)
Explanation

QUESTION 9
Which of the following utilities will produce the results printed below? Tracing route to 172.30.0.78 over a maximum of 30 hops 1 <1 ms <1 ms172.30.0.78

A. tracert

B. ping

C. arp

D. netstat

Correct Answer: A
Section: (none)
Explanation

QUESTION 10
A network technician is installing a small wireless network. A requirement is that individual users must authenticate using usernames and passwords. Which of the following technologies would support users authenticating with encrypted usernames and passwords?

A. WPA TLS

B. WPA PEAP

C. 64-bit WEP

D. 128-bit WEP

Correct Answer: B
Section: (none)
Explanation

QUESTION 11
Which TCP/IP model layer does the OSI model layer named 'session' respond to?

A. Application

B. Presentation

C. Internet

D. Transport

Correct Answer: A
Section: (none)
Explanation

QUESTION 12

A network administrator is checking work on some new CAT5 LAN network cabling installed at an organization. Multiple lines are receiving poor signals, and the administrator finds the lengths of the runs to be sometimes over 350 feet (107 meters). Which of the following is the cause of the issue?

A. CAT5 cable runs over 330 feet (100 meters) need to utilize STP instead of UTP.
B. CAT5 cabling is limited to single-run lines of 330 feet (100 meters).
C. CAT5 cabling is limited to single-run lines of 250 feet (76 meters).
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D. CAT5 cabling needs to have terminators installed at each end for runs over 330 feet (100 meters).

Correct Answer: B
Section: (none)
Explanation

QUESTION 13
In an environment with STP disabled, which of the following is the MOST likely cause of the exponential increase in repeated packets transferred through the network?

A. Incorrect subnet mask
B. Mismatched MTU
C. Switching loop
D. VLAN mismatch

Correct Answer: C
Section: (none)
Explanation

QUESTION 14
Which of the following is the port number used by HTTP?

A. 21
B. 80
C. 443
D. 3389

Correct Answer: B
Section: (none)
Explanation

QUESTION 15
A technician is asked to run new cabling for an office that is 350 feet (107 meters) away from the networking equipment. The type of cable being run is CAT6. The technician purchases and installs a 500 foot (152 meters) CAT6 cable, but after installation, notices a weak signal between the office and the networking equipment. Which of the following would have been the BEST to install instead of the CAT6 cable?

A. Install two CAT6 cables with a repeater.
B. Install a 500 foot (152 meter) CAT5 cable.
C. Install a 500 foot (152 meter) CAT5e cable.
D. Install three CAT6 cables with a repeater.

Correct Answer: A

QUESTION 16
Which of the following protocols should be used to monitor network performance?

A. SNTP
B. SMTP
C. HTTP
D. SNMP

Correct Answer: D

Explanation/Reference:

QUESTION 17
Which of the following would a network engineer use to ensure a statically addressed device would receive the same IP address, if it reverted to dynamic addressing?

A. DHCP option 3
B. DHCP exclusion
C. DHCP lease
D. DHCP reservation

Correct Answer: D

QUESTION 18
An organization currently has CAT5e cabling throughout its office. The network technician is troubleshooting a new CAT6 run that supports network traffic, but does not meet specification when tested with a TDR. Which of the following is MOST likely the cause?

A. Improper grounding
B. TXRX reversed
C. Incorrect termination
D. Outdated NIC drivers

Correct Answer: C

QUESTION 19
Which of the following services is used to create or update a client's DNS 'A' and 'PTR' records automatically?

A. Kerberos
B. BIND
C. WINS

D. DHCP

Correct Answer: D
Section: (none)
Explanation

QUESTION 20
A network technician would like to keep the IP address of the Human Resource department's server in the same group of 100 DHCP IP addresses that are assigned to the Human Resource department's employee workstations. Which of the following would BEST allow this and have the ability for the server to keep the same IP address?

A. Implement a set of static IPs for the entire human resource department.
B. Use a DHCP reservation for the server IP address.
C. Use a small DHCP scope for the human resource department.
D. Connect the server to a router in the network closet on the same floor.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 21
A network administrator is responding to a support ticket. The ticket does not have enough information to determine the problem. Which of the following should the technician perform FIRST before responding to the ticket?

A. Determine if anything has changed.
B. Test a theory to determine a cause.
C. Establish a plan of action to resolve the problem.
D. Escalate the problem if necessary.

Correct Answer: A
Section: (none)
Explanation

QUESTION 22
A customer has a wireless network and has reported that the network traffic from the wireless access points seems high compared to the limited number of wireless devices used. The customer believes that other non-employees are using the wireless network to access the Internet. Which of the following could be used to limit the access to the wireless network? (Select TWO).

A. WPA encryption
B. Changing wireless channels
C. MAC filtering
D. Changing wireless speed standards
E. SSID disable

Correct Answer: AC
Section: (none)
Explanation

QUESTION 23
A customer wants to network several computers within a large warehouse. The warehouse has one computer at the very far end of the warehouse that is 170 meters (557 feet) from the network switch. Which of the following cable types should a technician use for this computer?

A. CAT3
B. CAT5
C. CAT6
D. Fiber

Correct Answer: D
Section: (none)
Explanation

QUESTION 24
A layer 3 switch can move packets between subnets based on which of the following criteria?

A. 802.1q tag
B. Port
C. Application
D. IP address

Correct Answer: D
Section: (none)
Explanation

QUESTION 25

A customer wants to install a wireless network into a shared office space. There are several other wireless networks from other companies that can be detected within the office space. Which of the following should be configured on the customer's wireless network to differentiate it from other wireless network and still provide the BEST performance and security? (Select TWO).

A. SSID
B. Channel
C. Antenna type
D. Wireless standard
E. NAT

Correct Answer: AB
Section: (none)
Explanation

QUESTION 26
Which of the following has to be defined to guarantee a computer always has a private IP address of 10.4.0.5?

A. Scope
B. Lease

C. Reservation

D. Dynamic IP addressing

Correct Answer: C
Section: (none)
Explanation

QUESTION 27
Which of the following connector types is MOST commonly found with coaxial cabling?

A. DB-9

B. BNC

C. RJ-45

D. RJ-11

Correct Answer: B
Section: (none)
Explanation

QUESTION 28
Switch A is configured with VLAN 105 and 106. Switch B is configured with VLAN 105 and 107. Both switches are connected with a fiber cable. In order for packets from all VLANs to cross the fiber cable, which of the following configurations MUST be present?

A. Reverse ARP

B. Full duplex on the fiber link

C. PoE

D. 802.1q trunking

Correct Answer: D
Section: (none)
Explanation

QUESTION 29
A managed switch offers which of the following benefits over an unmanaged switch? (Select TWO).

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A. 802.1q

B. SNMP

C. Gigabit

D. Layer 2 forwarding

E. Fewer collision domains

Correct Answer: AB
Section: (none)
Explanation

QUESTION 30
A user on a network cannot access any network resources. The link light on the computer shows that a

connection is present. Which of the following is the MOST likely cause of the problem?

A. The wrong cable type has been used.
B. IDS has shut down the computer's switch port.
C. The port on the switch is configured incorrectly.
D. Spanning tree protocol was implemented.

Correct Answer: C
Section: (none)
Explanation

QUESTION 31
A network administrator needs to facilitate traffic from several VLANs over a single port. Which of the following configuration changes would facilitate access?

A. Traffic filtering
B. Trunking
C. MAC filtering
D. Port mirroring

Correct Answer: B
Section: (none)
Explanation

QUESTION 32
A new department is formed and a new section of the building is being built out for them. All 50 new employees will need access to the wireless network. Which of the following should be completed to allow these new employees access to the wireless network?

A. Frequency settings should be changed.
B. Additional WAPs should be installed.
C. Channels should be changed.
D. VLANs should be added.

Correct Answer: B
Section: (none)
Explanation

QUESTION 33
A company needs strong wireless security enabled for minimal cost. Which of the following security measures is the BEST to use?

A. WEP
B. Port filtering
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C. WPA
D. Longer SSID broadcast intervals

Correct Answer: C
Section: (none)
Explanation

QUESTION 34
A network administrator needs to add an additional connection to a room. The administrator adds a new Ethernet switch and must connect it to an existing switch. Which cable type should be used to connect the two switches?

A. CAT3 cable
B. Serial cable
C. Crossover cable
D. Rollover cable

Correct Answer: C
Section: (none)
Explanation

QUESTION 35
The location that the local network connection ends and the ISP responsibility begins is known as the:

A. access point.
B. default gateway.
C. IDF connection.
D. demarcation point.

Correct Answer: D
Section: (none)
Explanation

QUESTION 36
Before installing a wireless network, which of the following should be taken into consideration to reduce signal exposure for war drivers?

A. Device placement
B. MAC address filtering
C. User authentication
D. Encryption protocols

Correct Answer: A
Section: (none)
Explanation

QUESTION 37
A user is able to connect to a distant wireless network then loses connection. This is an ongoing problem for the user and the only wireless network around. Which of the following is MOST likely causing this problem?

A. Signal strength
B. Encryption type
C. Incorrect SSID
D. Incorrect channel
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Correct Answer: A
Section: (none)
Explanation

QUESTION 38
A technician is fixing a wireless network that was receiving interference from a user's cordless phone. Which of the following should the technician configure?

A. Channel
B. Encryption
C. SSID
D. DHCP scope

Correct Answer: A
Section: (none)
Explanation

QUESTION 39
Which of the following subnet masks would allow for 192.168.0.3 and 192.168.0.240 to be in the same subnet?

A. 255.255.255.0
B. 255.255.255.128
C. 255.255.255.192
D. 255.255.255.248

Correct Answer: A
Section: (none)
Explanation

QUESTION 40
Which of the following describes the purpose of DHCP?

A. Applying prioritization to certain types of network traffic.
B. Resolving FQDNs to IP addresses.
C. Filtering web content based on key words.
D. Dynamic assignment of IP addresses.

Correct Answer: D
Section: (none)
Explanation

QUESTION 41
Which of the following is a Class A private IP address?

A. 4.2.2.2
B. 10.1.1.45
C. 169.254.9.15
D. 192.168.0.100

Correct Answer: B
Section: (none)

Explanation

QUESTION 42
A company wants to secure access to its internal wireless network. The company wants to use the most secure means to access the network. Which of the following is the BEST choice for wireless security in this situation?

A. WEP encryption
B. Channel rotation
C. Disable SSID
D. WPA encryption

Correct Answer: D
Section: (none)
Explanation

QUESTION 43
A company plans to implement a wired network between several computers. The company wants this network to be able to have a transmission rate of 1Gbps. Which of the following cable types should be purchased?

A. Coaxial
B. CAT3
C. CAT5
D. CAT5e

Correct Answer: D
Section: (none)
Explanation

QUESTION 44
Which of the following defines the range of IP addresses a DHCP server can assign?

A. Scope
B. Lease
C. Reservation
D. Subnet

Correct Answer: A
Section: (none)
Explanation

QUESTION 45
After a brownout, a user can connect to the internal network, but not the Internet. Which of the following is the company's DSL router experiencing that is causing this issue?

A. Switching loop
B. Power failure
C. Broadcast storm
D. Duplicate IP address

Correct Answer: B
Section: (none)
Explanation

QUESTION 46
A technician is asked to install a wireless router in a company's public cafe area. The company wants the public to be able to connect to the wireless network with minimal security, but not be able to connect to the private internal network. Which of the following firewall rules would BEST accomplish this?

A. Content filtering on the wireless access point
B. Allow traffic from the wireless access point
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C. Block traffic from the wireless access point
D. Packet filtering on the wireless access point

Correct Answer: C
Section: (none)
Explanation

QUESTION 47
An administrator attempts to open a web page and sees the following error: 'Error 404: Page not found'. The administrator then uses the ping command and finds that the default gateway cannot be pinged. At which of the following layers does the problem MOST likely reside?

A. Layer 1
B. Layer 4
C. Layer 5
D. Layer 7

Correct Answer: A
Section: (none)
Explanation

QUESTION 48
A company has decided to increase wireless infrastructure security by moving from WEP encryption to WPA2. Technicians change each WAP to the new encryption standard and users are given the new passwords. Many users are able to reconnect using the new authentication, but several users report an inability to reconnect. Which of the following is the MOST likely cause of the problem?

A. The users who cannot connect are using older NICs without WPA2 support.
B. The users who cannot connect are in areas without wireless coverage.
C. The users who cannot connect have not been placed in the correct VLAN.
D. The users who cannot connect have not specified the correct signal strength.

Correct Answer: A
Section: (none)
Explanation

QUESTION 49
A technician installs a new WAP and users are able to connect; however, users cannot access the Internet.

Which of the following is the MOST likely cause of the problem?

A. The signal strength has been degraded and latency is increasing hop count.
B. An incorrect subnet mask has been entered in the WAP configuration.
C. The signal strength has been degraded and packets are being lost.
D. Users have specified the wrong encryption type and routes are being rejected.

Correct Answer: B
Section: (none)
Explanation

QUESTION 50
An administrator has just finished installing a new switch and connected two servers with IPs of 192.168.105.20 and .30. The servers are able to communicate with each other, but are unable to reach the Internet. The administrator sees the following information in the switch configuration:
interface VLAN 105
IP address 192.168.105.5 255.255.255.0
The administrator is able to ping the router at 192.168.105.1 from the switch. Which of the following is the MOST likely cause of the problem?

A. The subnet mask is incorrect.
B. A routing loop has occurred.
C. The administrator used a crossover cable to connect the switch to the gateway.
D. The server is missing default-gateway information.

Correct Answer: D
Section: (none)
Explanation

QUESTION 51
The network administrator has just finished installing a new 10/100/1000 switch, but receives reports from the server administrator that servers connected to the new switch seem to be experiencing slow LAN connections. The network administrator checks the port connecting the new switch to the core switch and sees the following information:

#show run interface GigabitEthernet0/10
Switchport trunk encapsulation dot1q
Switchport mode trunk
Switchport trunk native VLAN 10

Which of the following is the MOST likely cause of the slow connections?

A. The servers have not had VLAN tagging enabled on their NICs.
B. Speed and duplex have not been set.
C. VLAN tagging was not set on the trunk.
D. The servers have been connected with CAT5 cable.

Correct Answer: B
Section: (none)
Explanation

QUESTION 52
A small business with eight employees has just opened their office in a renovated loft in a busy downtown area. The owner of the building does not want to run any additional wiring beyond power, to preserve the historic nature of the building. Because of this stipulation, almost all tenants in the building have chosen to implement wireless. Which of the following should be the FIRST step in setting up this SOHO network?

A. Run a wireless site survey.
B. Speak to tenants to determine their telephone standards.
C. Install and configure a Gigabit switch.
D. Determine the operating system versions.

Correct Answer: A
Section: (none)
Explanation

QUESTION 53
1000BaseT has a MAXIMUM run distance of:

A. 25 meters (82 feet).
B. 100 meters (328 feet).
C. 500 meters (1640 feet).
D. 1000 meters (3280 feet).
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Correct Answer: B
Section: (none)
Explanation

QUESTION 54
Which of the following DNS record types provides the hostname to IP address mapping?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 55
A user took a laptop on vacation and made changes to the configuration in order to use the device at the hotel. The user can reach the Internet, but cannot access any internal network resources.
Which of the following is the MOST likely reason?

A. Incorrect DNS
B. Incorrect subnet mask
C. Duplicate IP address
D. Incorrect SSID

Correct Answer: A
Section: (none)
Explanation

QUESTION 56
An administrator is using a punch-down tool to connect a cable. To which of the following is the administrator MOST likely connecting?

A. A 110 block
B. A demarc
C. A DB-9
D. A smart jack

Correct Answer: A
Section: (none)
Explanation

QUESTION 57
Two technicians have been working on the same switch and now users have no connectivity. Which of the following is the BEST method to retrieve information about recent configuration changes?

A. Syslog
B. History logs
C. SNMP
D. General logs

Correct Answer: B
Section: (none)
Explanation

QUESTION 58

Teachers and students at a school currently share the same bandwidth. The Internet performance for the teachers in the classroom is becoming extremely slow. Which of the following is the BEST method to mitigate the issue?

A. Increased uptime
B. Caching engines
C. Traffic shaping
D. Load balancing

Correct Answer: C
Section: (none)
Explanation

QUESTION 59
Which of the following uses copper wiring?

A. 10GBaseER

B. 10GBaseLW
C. 100BaseFX
D. 1000BaseT

Correct Answer: D
Section: (none)
Explanation

QUESTION 60
The location where the Telco wiring stops and the clients wiring starts is known as the:

A. MDF.
B. demarc.
C. IDF.
D. 66 block.

Correct Answer: B
Section: (none)
Explanation

QUESTION 61
Which of the following cables covers the LONGEST distance?

A. 10GBaseT
B. 10GBaseFR
C. 100BaseTX
D. 1000BaseX

Correct Answer: B
Section: (none)
Explanation

QUESTION 62
Users report that there Internet connection is slow. The network technician has a suspicion that users are streaming video and music. Which of the following would BEST confirm the technician's theory?

A. Traffic analysis
B. SNMP
C. History logs
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D. System logs

Correct Answer: A
Section: (none)
Explanation

QUESTION 63
A router that takes the workstations internal IP address and changes it to another IP address when it sends the data outside of the network is and example of which of the following?

A. NAT
B. IDS
C. NMAP
D. DMZ

Correct Answer: A
Section: (none)
Explanation

QUESTION 64
A firewall that examines all the incoming traffic and decides if the traffic is going to be allowed though or dumped is a example of which of the following?

A. Packet sniffing
B. Packet filter
C. Stateful inspection
D. Content filter

Correct Answer: C
Section: (none)
Explanation

QUESTION 65
The network administrator has funding to do a major upgrade of the company's LAN. This upgrade is currently in the planning stage, and the administrator still needs to determine the network requirements, bottlenecks, and any future upgrades in mind. Which of the following is the FIRST step in the planning process?

A. Conduct a vulnerability scan
B. Establish a network baseline
C. Conduct traffic analysis
D. Conduct a risk assessment

Correct Answer: B
Section: (none)
Explanation

QUESTION 66
Which of the following improves wireless performance by allowing only one wireless transmission on the network at a time?

A. CSMA/CA
B. CSMA/CD
C. Wireless encryption
D. Wireless bonding

Correct Answer: A
Section: (none)
Explanation

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QUESTION 67
A network technician is installing a new managed 10/100 Mbps switch on the network. The network has an older printer with a 10Mbps network adapter that will be moved to the new switch. Which of the following settings on the switch will need to be configured to support the printer?

A. MAC filtering
B. IP address
C. PoE
D. Port speed

Correct Answer: D
Section: (none)
Explanation

QUESTION 68
A new network technician is monitoring network traffic and notices the network is operating at 80% of capacity. Which of the following could be used to determine if this is abnormally high traffic use?

A. Network maps
B. Cable management documentation
C. Wire schemes
D. Baseline

Correct Answer: D
Section: (none)
Explanation

QUESTION 69
A network technician arrives to work and discovers users are having a problem connecting the company server. The server operator was working on upgrades the night before. Which of the following documents should the technician use to attempt to discover the problem?

A. Network maps
B. Change management
C. Baselines
D. Cable management

Correct Answer: B
Section: (none)
Explanation

QUESTION 70
Users have reported slow access times when retrieving information from a server on the company's network. Which of the following tools would provide access time information on each segment of the network to reach the server?

A. arp
B. route
C. ipconfig
D. tracert

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 71
A network technician is concerned about the environmental effects of power consumption and heat from network resources. Limited space is also a concern. Which of the following technologies should be implemented?

A. Circuit switching
B. Network address translation
C. Power over Ethernet
D. Virtual servers

Correct Answer: D
Section: (none)
Explanation

QUESTION 72
For security reasons a network technician wants to install a Linux based email server, Microsoft web services, and directory services on different servers. Which of the following technologies would be BEST to reduce hardware costs?

A. VPN concentrator
B. Virtual servers
C. Wireless
D. Multimode fiber

Correct Answer: B
Section: (none)
Explanation

QUESTION 73
A network technician wants to use a packet analyzer to troubleshoot a reported problem with a user's workstation with IP address 192.168.1.45. To identify the workstation's packets the technician wants to use the workstation's MAC address. Which of the following protocols would provide the needed information?

A. DHCP
B. ARP
C. DNS
D. PING

Correct Answer: B
Section: (none)
Explanation

QUESTION 74
Which of the following OSI layers performs error detection using a Frame Check Sequence?

A. Session
B. Transport
C. Physical
D. Data link

Correct Answer: D
Section: (none)
Explanation

QUESTION 75
Which of the following network optimization methods would be BEST to implement to increase

bandwidth for an internal streaming video server?

A. ISDN
B. QoS
C. Upgrade to 10baseT
D. Buffer overflow

Correct Answer: B
Section: (none)
Explanation

QUESTION 76
Creating a uniform user environment throughout the network can BEST be achieved by using which of the following?

A. Honeypots
B. Virtual switches
C. Virtual PBX
D. Virtual desktops

Correct Answer: D
Section: (none)
Explanation

QUESTION 77
An administrator is experiencing availability issues on a Linux server. The administrator decides to check the server for an IP address conflict on the server. Which of the following commands should the administrator use?

A. traceroute
B. tracert
C. ifconfig
D. ipconfig

Correct Answer: C
Section: (none)
Explanation

QUESTION 78
An administrator receives reports from users in an office that their 802.11g wireless connectivity has been problematic since the installation of the new wireless phone system. At which of the following frequencies are both systems operating at to cause this issue?

A. 2.4GHz
B. 900MHz
C. 1.1GHz
D. 5GHz

Correct Answer: D
Section: (none)
Explanation

QUESTION 79
After a baseline check was completed it was noted that the network was working far below the level of the last baseline. Which of the following should the technician do NEXT to determine where the network problems are occurring?

A. Upgrade the firmware on all routers and switches
B. Reboot the entire network one device at a time
C. Conduct a network traffic analysis
D. Rerun the baseline to ensure the results were correct

Correct Answer: C
Section: (none)
Explanation

QUESTION 80
A network technician has determined that the initial theory of probable cause was incorrect. Which of the following would be the NEXT step in the troubleshooting process?

A. Implement the solution
B. Establish a plan
C. Document findings
D. Escalate the issue

Correct Answer: D
Section: (none)
Explanation

QUESTION 81
Which of the following protocols are being used if no handshake or data reliability are required?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 82
Which of the following protocols is used to encrypt data between web servers and web browsers?

A. SMTP
B. SIP
C. HTTP
D. SSL

Correct Answer: D
Section: (none)
Explanation

QUESTION 83
Which of the following should be updated when new computers are purchased?

A. Asset management
B. Change management
C. Cable management
D. Baselines

Correct Answer: A
Section: (none)
Explanation

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QUESTION 84
Which of the following would provide a technician with a performance reference point to refer back to after hardware repair?

A. Baseline
B. Network map
C. Wire scheme
D. Asset management

Correct Answer: A
Section: (none)
Explanation

QUESTION 85
Which of the following should be implemented to provide high bandwidth to a VoIP application?

A. Caching engines
B. Fault tolerance
C. Load balancing

D. High availability

Correct Answer: C
Section: (none)
Explanation

QUESTION 86
A network consultant is asked to set up a wireless network in a home. The home user wants the wireless network to be available in every corner of the house. Which of the following additional information will the technician need to determine the equipment for the installation? (Select TWO).

A. The length of the house
B. How many rooms are in the house
C. How many users will be using the wireless network
D. The building material of the house
E. The cost of the house

Correct Answer: AD
Section: (none)
Explanation

QUESTION 87
Which of the following DNS records would be queried to locate a company's mail server?

A. A
B. MX
C. AAAA
D. CNAME

Correct Answer: B
Section: (none)
Explanation

QUESTION 88
Which of the following protocols is used to disable switch ports automatically to prevent switching loops?

A. RIP
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B. OSPF
C. STP
D. EGP

Correct Answer: C
Section: (none)
Explanation

QUESTION 89
Which of the following can be used to record and save VoIP conversations?

A. Packet sniffer

B. Banner grabber
C. IDS
D. Port scanner

Correct Answer: A
Section: (none)
Explanation

QUESTION 90
A user reports sporadic connectivity with their wireless connection. A technician determines the wireless speed reported by the laptop to be 1Mbps. Which of the following is the MOST likely cause of this issue?

A. The client does not support 802.11n.
B. Incorrect frequency on the client is being used.
C. Incorrect encryption on the AP.
D. The client distance from the AP.

Correct Answer: D
Section: (none)
Explanation

QUESTION 91
Which of the following applications is MOST likely to require QoS to ensure proper functionality?

A. HTTP
B. VoIP
C. SNMPv3
D. Peer to peer

Correct Answer: B
Section: (none)
Explanation

QUESTION 92
Which of the following is a performance optimization technology?

A. QoS
B. Trunking
C. Spanning
D. VoIP

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 93
A technician is using a packet sniffer to identify a server. The technician observes the following network traffic:

HOST-A TCP 80 -> HOST-B TCP 1328 PUSH
HOST-B TCP 1328 -> HOST-A TCP 80 PUSH ACK
HOST-A UDP 69 -> HOSTC UDP 1235
HOST-C ICMP -> HOST-D ICMP

Which of the following is MOST likely to be the server?

A. HOST-A
B. HOST-B
C. HOST-C
D. HOST-D

Correct Answer: A
Section: (none)
Explanation

QUESTION 94
The helpdesk is receiving calls about the corporate web server being down. Which of the following should be taken NEXT after verifying that the server is unreachable?

A. Escalate the call to a technician.
B. Document any changes in the web server configuration.
C. Implement and test a solution.
D. Continuously ping the server until a ping response is obtained.

Correct Answer: A
Section: (none)
Explanation

QUESTION 95
Which of the following troubleshooting steps should be performed NEXT after a core router has been reported down?

A. Implement a solution.
B. Establish the outage cause.
C. Identify all affected areas.
D. Test a solution.

Correct Answer: C
Section: (none)
Explanation

QUESTION 96
A technician is troubleshooting a network connectivity issue. Given the following abbreviated traceroute output:

1 192.168.1.1
2 172.16.40.1
3 10.4.0.1
4 172.16.40.1

Which of the following is MOST likely occurring?

A. Switching loop
B. Broadcast storm
C. IP conflict
D. Routing loop

Correct Answer: D
Section: (none)
Explanation

QUESTION 97
A technician is troubleshooting a network connectivity issue with a user's desktop configured to use a static IP address. The technician notes the following configuration:

IP 172.16.2.0
NETMASK 255.255.254.0
DEFAULT GATEWAY 172.16.1.1
DNS 192.168.1.1

Which of the following changes will allow the desktop to communicate properly with remote networks?

A. Changing the DNS to 172.16.1.100
B. Changing the WINS server to 172.17.4.136
C. Changing the netmask to 255.255.255.0
D. Changing the default gateway to 172.16.3.1

Correct Answer: D
Section: (none)
Explanation

QUESTION 98
Which of the following security controls are MOST effective when a router only supports local configuration changes via serial console? (Select TWO).

A. Biometric door locks
B. Two factor authentication
C. IP cameras
D. Strong passwords
E. One time passwords

Correct Answer: AC
Section: (none)
Explanation

QUESTION 99
On which of the following cables would a technician find a BNC connector installed?

A. CAT6
B. RG-6
C. Fiber
D. CAT3

Correct Answer: B
Section: (none)
Explanation

QUESTION 100

Which of the following can be an STP cable?

A. RG-6
B. CAT5e
C. Fiber
D. RG-59

Correct Answer: B
Section: (none)
Explanation

QUESTION 101
Two business partners have recently been connected via a dedicated extranet. It has been discovered that each of the companies are using the same private IP address space. Which of the following will help to resolve potential routing issues?

A. Multicast
B. PAT
C. CIDR
D. NAT

Correct Answer: D
Section: (none)
Explanation

QUESTION 102
An administrator is setting up a security camera that will send the same feed to twelve of the twenty workstations on the network. Which of the following addressing schemes was designed for this scenario?

A. Multicast
B. Unicast
C. Broadcast
D. Peer-to-peer

Correct Answer: A
Section: (none)
Explanation

QUESTION 103
Which of the following is a reason to block FTP at the corporate firewall?

A. It does not transfer encrypted files.

B. It cannot be tunneled in a VPN.
C. It is a deprecated protocol.
D. It transmits passwords in clear text.

Correct Answer: D
Section: (none)
Explanation

QUESTION 104

Which of the following network devices would MOST likely be installed on a network to help reduce broadcast traffic and to allow individual virtual networks?

A. Switch
B. Repeater
C. Hub
D. WAP

Correct Answer: A
Section: (none)
Explanation

QUESTION 105
Which of the following protocols can be found at the application layer?

A. Telnet
B. TCP
C. SNMP
D. UDP

Correct Answer: A
Section: (none)
Explanation

QUESTION 106
The T568B wiring standard states that CAT5 cables should be coded as follows:

A. White/Orange,Orange,White/Green,Green,Blue,White/Blue,White/Brown,Brown.
B. White/Orange,Orange,White/Green,Blue,White/Blue,Green,White/Brown,Brown.
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C. White/Orange,Orange,White/Green,Green,White/Blue,Blue,White/Brown,Brown.
D. White/Orange,Orange,White/Green,Blue.

Correct Answer: B
Section: (none)
Explanation

QUESTION 107

Which of the following wireless technologies can support the MOST allowable MIMO streams?

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

Correct Answer: D
Section: (none)
Explanation

Exam C

QUESTION 1
Which of the following cables can be a UTP cable?

A. RG-59
B. RG-6
C. Fiber
D. CAT6

Correct Answer: D
Section: (none)
Explanation

QUESTION 2
Which of the following cable types has a MAXIMUM transmission rate of 1Gbps?

A. CAT5e
B. Fiber
C. CAT7
D. Serial

Correct Answer: A
Section: (none)
Explanation

QUESTION 3
Which of the following connector types is used for coax cable?

A. BNC
B. ST
C. LC
D. SC

Correct Answer: A
Section: (none)
Explanation

QUESTION 4
Which of the following connector types will MOST likely be located on a serial cable?

A. DB-9
B. LC
C. ST
D. BNC

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
Which of the following will resolve hostname to IP addresses?

A. DHCP server
B. DNS server
C. Web server
D. Proxy server

Correct Answer: B
Section: (none)
Explanation

QUESTION 6
Which of the following is a multifunction device in a SOHO network?

A. Bandwidth shaper
B. Proxy server
C. Wireless router
D. Load balancer

Correct Answer: C
Section: (none)
Explanation

QUESTION 7
Which of the following components is typically used for voice transmissions and has a 10Mbps maximum transfer speed?

A. 110 block
B. Patch panel
C. Vertical cross connect
D. 66 block

Correct Answer: D
Section: (none)
Explanation

QUESTION 8
T568B wiring scheme is typically found on which of the following components?

A. Demarc extension
B. 66 block
C. Patch panel
D. Vertical cross connect

Correct Answer: C
Section: (none)
Explanation

QUESTION 9
The technician notices that one of the wires in a CAT5 cable is cut in half. Which of the following connectivity issues did the technician discover?

A. Open pairs
B. Attenuation
C. Crosstalk
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D. Interference

Correct Answer: A
Section: (none)
Explanation

QUESTION 10
An administrator has found interference on a network. Which of the following cable types is the network MOST likely composed of?

A. UTP
B. Fiber
C. RG-6
D. STP

Correct Answer: A
Section: (none)
Explanation

QUESTION 11
Which of the following describes what the number two represents in 100Base2 cabling?

A. Fiber
B. Coaxial cable
C. UTP
D. Twisted pair

Correct Answer: B
Section: (none)
Explanation

QUESTION 12
Which of the following describes 1Gigabit Ethernet?

A. 10GBaseER
B. 10Base2
C. 1000BaseT
D. 100Base5

Correct Answer: C
Section: (none)
Explanation

QUESTION 13
Which of the following commands is used to display other computers running on the network?

A. hostname
B. ipconfig
C. net view
D. nslookup

Correct Answer: C
Section: (none)
Explanation

QUESTION 14
Which of the following ping parameters will set the size of the outgoing packet?

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A. -c
B. i
C. R
D. -s

Correct Answer: D
Section: (none)
Explanation

QUESTION 15
Which of the following is a secure method of remote access via command line?

A. RCP
B. Telnet
C. RSH
D. SSH

Correct Answer: D
Section: (none)
Explanation

QUESTION 16
Which of the following is a secure method of transferring a file?

A. RCP
B. FTP
C. SSH
D. SCP

Correct Answer: D
Section: (none)
Explanation

QUESTION 17
An administrator is implementing a second server due to the increased usage. Which of the following optimization techniques is the administrator using?

A. Caching engines
B. QoS
C. Traffic shaping
D. Load balancing

Correct Answer: D
Section: (none)
Explanation

QUESTION 18
Which of the following features would BEST be used to optimize real-time voice and video chat? (Select TWO).

A. Load balancing
B. Caching engines
C. QoS
D. Fault tolerance systems
E. Traffic shaping
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Correct Answer: CE
Section: (none)
Explanation

QUESTION 19
CAT5, CAT5e, and CAT6 cabling all consist of:

A. 8 separate strands, all split into individual leads with no intertwining.
B. 4 separate strands split into 2 pairs of 2 intertwined leads.
C. 8 separate strands split into 2 pairs of 4 intertwined leads.
D. 8 separate strands split into 4 pairs of 2 intertwined leads.

Correct Answer: D
Section: (none)
Explanation

QUESTION 20
Which of the following cable types has the reception and transmission leads flipped on opposing ends of the media?

A. Rollover
B. Patch
C. Serial
D. Crossover

Correct Answer: D
Section: (none)

Explanation

QUESTION 21
A technician claims to have crimped a patch cable according to the T568A standard on one end and T568B on the other. Which of the following results is to be expected?

A. Since only half the leads are used, the cable will only work at 100Mbps.
B. The cable will only work at a maximum of 100Mbps, since 1Gbps only works on T568B cables.
C. There will be no proper data continuity; the standards utilize two different wiring diagrams.
D. The cable will only work at a maximum of 10Mbps, since 100/1000Mbps only works on T568B pure cables.

Correct Answer: C
Section: (none)
Explanation

QUESTION 22
A natural disaster has occurred and the administrator must return the network to a healthy status. Which of the following should the administrator do in this case?

A. Follow the emergency action plan.
B. Wait for an issue to be reported.
C. Establish a new baseline.
D. Determine if escalation is necessary.

Correct Answer: A
Section: (none)
Explanation

QUESTION 23
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A user has logged into a company laptop while at a conference. The user is unable to log directly into the conference facility's wireless network, but is able to connect to another user's laptop and thereby access the conference materials. This is an example of:

A. VPN tunneling.
B. peer to peer.
C. client/server.
D. shoulder surfing.

Correct Answer: B
Section: (none)
Explanation

QUESTION 24
A user is attempting to connect to the network remotely using a laptop and dial-up. The user plugs the cable into the only available laptop connection, but the connector is loose inside the port. The MOST likely reason the connector is loose is the:

A. RJ-11 connector needs to be re-crimped.
B. user has plugged into the laptop's NIC port.

C. user has plugged the wrong end of the cable into the port.

D. RJ-11 connector needs to be replaced with an RJ-45 connector.

Correct Answer: B
Section: (none)
Explanation

QUESTION 25
Which of the following is a disadvantage of using the spanning tree protocol?

A. VLANs are not supported

B. Susceptible to signal bleed

C. Convergence time

D. Bandwidth of the connection

Correct Answer: C
Section: (none)
Explanation

QUESTION 26
A technician who separated two departments using VLANs now discovers that the VLANs cannot communicate with each other. Which of the following does the technician need to enable communication between the VLANs?

A. Port spanning

B. VLAN concentrator

C. Firewall

D. Router

Correct Answer: D
Section: (none)
Explanation

QUESTION 27
Which of the following is MOST commonly powered using PoE?

A. Routers

B. Switches

C. Laptops

D. Access points

Correct Answer: D
Section: (none)
Explanation

QUESTION 28
A stateless firewall requires a technician to:

A. write more packet filters.

B. write less packet filters.
C. purchase a license for states.
D. upgrade definitions manually.

Correct Answer: A
Section: (none)
Explanation

QUESTION 29
Which of the following would be BEST to use when identifying HTTP traffic running on TCP port 53?

A. Network layer firewall
B. Stateful inspection firewall
C. Zone aware firewall
D. Application layer firewall

Correct Answer: D
Section: (none)
Explanation

QUESTION 30
A stateful firewall is MOST useful in protecting against which of the following network scans?

A. PING
B. UDP
C. Xmas
D. ACK

Correct Answer: C
Section: (none)
Explanation

QUESTION 31
For some unknown reason, a network switch turns itself off at some point during the night. An administrator places a temperature monitor in the network closet. Which of the following BEST describes what the administrator is testing?

A. The HVAC is not functioning properly.
B. The network switch is running on the incorrect frequency.
C. The VLANs are not configured correctly.
D. The switch does not support power over Ethernet.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 32
A UPS in a network closet goes into alert mode for a few seconds, then returns to normal. This happens a few

times each day. Which of the following would be the BEST tool for the administrator to use to diagnose this problem?

A. Voltage event recorder
B. Temperature monitor
C. Multimeter
D. Certifier

Correct Answer: A
Section: (none)
Explanation

QUESTION 33
A SONET network typically uses which of the following transmission media?

A. Single-mode fiber
B. Multimode fiber
C. Copper
D. Wireless

Correct Answer: A
Section: (none)
Explanation

QUESTION 34
Which of the following routing protocols has "areas" as a feature?

A. RIP
B. BGP
C. OSPF
D. EIGRP

Correct Answer: C
Section: (none)
Explanation

QUESTION 35
Which of the following is an invalid IPv4 address?

A. 225.0.0.1
B. 254.254.0.0
C. 256.0.0.4
D. 224.2.1.4

Correct Answer: C
Section: (none)
Explanation

QUESTION 36
Users are unable to access the Internet but the users are able to send/receive email from their desktops. Which of the following ports is MOST likely being blocked?

A. 25
B. 80
C. 110
D. 143

Correct Answer: B
Section: (none)
Explanation

QUESTION 37
Which of the following ports does POP3 services use, by default?

A. 25
B. 110
C. 143
D. 443

Correct Answer: B
Section: (none)
Explanation

QUESTION 38
Which of the following wireless standards has a MAXIMUM throughput, by default, of 11Mbps?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 39
Which of the following wireless standards was the FIRST standard to be ratified and is used to support legacy wireless devices?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 40
Which of the following network topologies is normally used in MAN to provide fault tolerance between routers?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 41
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Which of the following network devices would MOST likely be installed on a network to help reduce broadcast traffic and to allow individual virtual networks?

A. Switch
B. Repeater
C. Hub
D. WAP

Correct Answer: A
Section: (none)
Explanation

QUESTION 42
Which of the following network devices would MOST likely be installed to allow the company's single public IP to be shared and translated into local IPs for network devices?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 43
Users are unable to stay connected to the company's wireless network. Several times throughout the day the users' signals are dropped and they are forced to reconnect to the network. A technician determines the network cabling that supplies the WAP has been run inside with several power lines. Which of the following is the MOST likely cause of the network issue?

A. A short
B. Open pairs
C. ESD
D. EMI

Correct Answer: D
Section: (none)

Explanation

QUESTION 44
Which of the following cable types has a MAXIMUM transmission speed of 10Mbps?

A. CAT6
B. CAT5
C. Single-mode fiber
D. CAT3

Correct Answer: D
Section: (none)
Explanation

QUESTION 45
Which of the following cables is the EASIEST to tap into?

A. UTP
B. STP
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C. Coax
D. Fiber

Correct Answer: C
Section: (none)
Explanation

QUESTION 46
Which of the following cables is the MOST susceptible to interference?

A. Fiber
B. Coax
C. UTP
D. STP

Correct Answer: C
Section: (none)
Explanation

QUESTION 47
A client wants to improve the wireless coverage on the third floor of their house. The wireless router is located in the basement and there is no easy way to run a cable to the third floor. Which of the following devices should be installed to extend the wireless coverage to cover the entire third floor without running cables?

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

Correct Answer: C

QUESTION 48
A client is having problems connecting remotely after replacing a router. An administrator has just created an action plan. Which of the following is the NEXT step the administrator should perform to resolve this issue?

A. Implement and test the solution.
B. Determine if escalation is necessary.
C. Identify the affected areas of the network.
D. Identify the results and effects of the solution.

Correct Answer: A
Section: (none)
Explanation

QUESTION 49
Which of the following tools would an administrator use to determine if a DNS server is answering authoritatively for a domain?

A. nbtstat
B. dig
C. netstat
D. hostname
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Correct Answer: B
Section: (none)
Explanation

QUESTION 50
Users report network problems with the 802.11g wireless network whenever the phone rings. Which of the following is a cause for the network problems?

A. A digital phone is being used.
B. The access point is broadcasting the SSID.
C. A 2.4GHz cordless phone is being used.
D. A 5GHz cordless phone is being used.

Correct Answer: C
Section: (none)
Explanation

QUESTION 51
When installing two 802.11g access points in the same building, which of the following channels will MOST likely be used to minimize interference?

A. 5 and 6
B. 1and 6
C. 6 and 10

D. 2 and 6

Correct Answer: B
Section: (none)
Explanation

QUESTION 52
A device that can detect and disrupt network-based attacks is a(n):

A. DNS.
B. IPS.
C. DSU.
D. IDS.

Correct Answer: B
Section: (none)
Explanation

QUESTION 53
Session affinity is a feature of which of the following devices?

A. DNS server
B. DHCP server
C. Load balancer
D. IPS

Correct Answer: C
Section: (none)
Explanation

QUESTION 54
When ordering a T1 line, the network technician tells the telecommunications company that a particular device is not needed since it is built-in to the router's T1 port. Which of the following devices is the technician referring to?

A. CSU/DSU
B. ATM
C. TDR
D. DWDM

Correct Answer: A
Section: (none)
Explanation

QUESTION 55
A crossover cable is not needed when the switch supports which of the following?

A. LACP

B. IGRP
C. XDSL
D. MDIX

Correct Answer: D
Section: (none)
Explanation

QUESTION 56
An E1 connection contains how many lines?

A. 16
B. 22
C. 24
D. 32

Correct Answer: D
Section: (none)
Explanation

QUESTION 57
Which of the following cables would a technician make in order to identify a physical interface problem?

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

Correct Answer: B
Section: (none)
Explanation

QUESTION 58
A second network card in a server that activates if the primary card fails is an example of which of the following network performance optimization?

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

Correct Answer: D
Section: (none)
Explanation

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QUESTION 59
A user reports that the wireless network is slow and is able to see and access shared folders that are unknown to the user. Which of the following is the cause of the problem?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 60
Which of the following security mitigation techniques is the MOST effective against zero-day attacks?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 61
Which of the following network protocols is used to ensure consistent time across network devices on the domain?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 62
A technician temporarily needs an additional network connection in their office to test a new workstation. Which of the following is the BEST solution to add a temporary network connection?

A. Install a small network switch
B. Use port mirroring on the switch
C. Split the pairs of the existing jack
D. Install a CSU/DSU

Correct Answer: A
Section: (none)
Explanation

QUESTION 63
New service from the telephone company is delivered over fiber, but the technician does not have a fiber module for the router. Which of the following would remedy this issue?

A. OTDR
B. Media converter
C. CSU/DSU
D. Fiber repeater

Correct Answer: B
Section: (none)
Explanation

QUESTION 64
An administrator wants to limit access of a wireless network without requiring authorized users to enter a password or network key. Which of the following methods would MOST likely be implemented on the wireless network?

A. Disable SSID
B. WPA
C. MAC filtering
D. RAS

Correct Answer: C
Section: (none)
Explanation

QUESTION 65
Which of the following is a form of encrypting packets for safe, secure data transmission within a network?

A. RAS
B. PPTP
C. IPSec
D. ICA

Correct Answer: C
Section: (none)
Explanation

QUESTION 66
Which of the following remote access methods allows an administrator to take control of a user's machine and block the user from seeing the active session?

A. PPP
B. PPPoE
C. RDP
D. RAS

Correct Answer: C
Section: (none)
Explanation

QUESTION 67
Which of the following devices is used to connect multiple devices to a network and does not stop broadcast traffic?

A. Switch
B. Hub
C. Modem
D. Repeater

Correct Answer: B
Section: (none)
Explanation

QUESTION 68
An administrator wants to prevent users from plugging in their personal laptops and accessing the Internet without a member of the IT staff configuring the machine first. Which of the following would MOST likely be installed?

A. Multilayer switch
B. CSU
C. Proxy server
D. IDS

Correct Answer: C
Section: (none)
Explanation

QUESTION 69
A wireless access point supports up to 20 clients. Which of the following describes this wireless network?

A. Mesh
B. Point to point
C. Point to multipoint
D. Ring

Correct Answer: C
Section: (none)
Explanation

QUESTION 70
A technician needs to add network capacity. However, when plugging a second switch into the first switch, there is no link light. Which of the following is the cause of this situation?

A. The switches are not stackable.
B. The cable was not wired using 568A.
C. The cable needs to be a crossover cable.
D. The switches have IGMP snooping enabled.

Correct Answer: C

QUESTION 71
Which of the following describes the ICMP protocol?

A. Layer 4 protocol
B. UDP protocol
C. TCP protocol
D. Layer 3 protocol

Correct Answer: D
Section: (none)
Explanation

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QUESTION 72
When ordering switches for a new building, which of the following is the BEST way for the technician to
determine the number of switches to put in each network closet?

A. Review the architectural plans to see how many drops go to each closet.
B. Count the number of rooms near each closet and standardize eight drops per room.
C. Wireless is the new standard and no network switches will be needed in the building.
D. Count the number of phone ports and configure two network ports for each phone port.

Correct Answer: A
Section: (none)
Explanation

QUESTION 73
An administrator needs to diagnose problems with a WINS server. Which of the following tools should be used?

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

Correct Answer: B
Section: (none)
Explanation

QUESTION 74
Which of the following protocols uses port 20, by default?

A. DNS
B. HTTPS
C. SSH
D. FTP

Correct Answer: D
Section: (none)
Explanation

QUESTION 75
Which of the following WAN technologies has the GREATEST latency and is not recommended for VoIP?

A. ISDN
B. DSL
C. Satellite
D. Cable

Correct Answer: C
Section: (none)
Explanation

QUESTION 76
Which of the following should be changed to secure access to a WAPs configuration management interface?

A. SSID
B. WPA2
C. DHCP
D. Password

Correct Answer: D
Section: (none)
Explanation

QUESTION 77
When setting up a wireless network to cover a large area, which of the following needs to be considered FIRST?

A. Device placement
B. Encryption methods
C. Wireless channels
D. SSID name

Correct Answer: A
Section: (none)
Explanation

QUESTION 78
Which of the following protocols can be found at the application layer?

A. Telnet
B. TCP
C. SNMP
D. UDP

Correct Answer: A
Section: (none)
Explanation

QUESTION 79
Which of the following tools would an administrator BEST use to trace a network cable?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 80
A technician is at a client's site to figure out an intermittent network problem. The technician has implemented the solution. Which of the following is the NEXT step in the troubleshooting methodology?

A. Document the solution and the entire process.
B. Create an action plan and identify potential effects.
C. Determine if escalation is necessary.
D. Determine if anything has changed.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 81
Which of the following LAN technology has a MAXIMUM range of 10,000 meters (6 miles)?

A. 10GBaseER
B. 10GBaseSW
C. 10GBaseLW
D. 10GBaseEW

Correct Answer: C
Section: (none)
Explanation

QUESTION 82
802.11g wireless signals operating at 2.4GHz has a maximum line of sight range of which of the following?

A. 460 feet (140 meters)
B. 540 feet (165 meters)
C. 560 feet (171 meters)
D. 840 feet (256 meters)

Correct Answer: A
Section: (none)
Explanation

QUESTION 83
An administrator has added a new access point to the network to provide additional coverage. A heat-map survey shows coverage now extends beyond company property and is interfering with other wireless networks in the area. How should the administrator modify the new installation to stop the interference?

A. Turn down the transmission strength of the access point.
B. Replace the antenna with a smaller one.
C. Change the wireless password to a more complex one.
D. Change the SSID of the access point.

Correct Answer: A
Section: (none)
Explanation

QUESTION 84
A standard installation for wireless will use which of the following antenna types?

A. Sector
B. Patch
C. Yagi
D. Omni-Directional

Correct Answer: D
Section: (none)
Explanation

QUESTION 85
The T568B wiring standard states that CAT5 cables should be coded as follows:

A. White/Orange,Orange,White/Green,Green,Blue,White/Blue,White/Brown,Brown.
B. White/Orange,Orange,White/Green,Blue,White/Blue,Green,White/Brown,Brown.
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C. White/Orange,Orange,White/Green,Green,White/Blue,Blue,White/Brown,Brown.
D. White/Orange,Orange,White/Green,Blue.

Correct Answer: B
Section: (none)
Explanation

QUESTION 86
Which of the following commands provides similar information about the current configuration of active local Ethernet adapters? (Select TWO).

A. traceroute
B. ipconfig

C. ifconfig
D. route
E. hostname

Correct Answer: BC
Section: (none)
Explanation

QUESTION 87
By default, which of the following ports would a network need to have opened to allow for the transmission of incoming and outgoing email? (Select TWO).

A. 21
B. 25
C. 80
D. 110
E. 123

Correct Answer: BD
Section: (none)
Explanation

QUESTION 88
Which of the following port combinations need to be opened over a firewall for Internet browsing?

A. 80 and 110
B. 443 and 143
C. 80 and 443
D. 80 and 25

Correct Answer: C
Section: (none)
Explanation

QUESTION 89
Which of the following colors represents the outer leads on a connector head of a 568B patch cable? (Select TWO).

A. Blue, brown/white
B. Green/white, blue
C. Orange/white, orange
D. Blue, blue/white
E. Brown/white, brown
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Correct Answer: CE
Section: (none)
Explanation

QUESTION 90

Which of the following cable speeds would provide the GREATEST theoretical bandwidth?

A. 1000BaseT
B. 100BaseT
C. 10GBaseT
D. 10BaseT

Correct Answer: C
Section: (none)
Explanation

QUESTION 91
Which of the following documents should always be kept up-to-date after any major changes are made to a network backbone?

A. Network diagram
B. Performance baseline
C. Network security procedure
D. Company policy

Correct Answer: A
Section: (none)
Explanation

QUESTION 92
In order for two machines on different VLANs to communicate with one another, which of the following must be properly set?

A. DNS
B. Load balancing
C. Subnet mask
D. Default gateway

Correct Answer: D
Section: (none)
Explanation

QUESTION 93
Which of the following is the network topology in which computers connect to form a straight line?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 94
Which of the following is a hybrid network topology used for fault tolerance, in which all computers MUST

connect to each other?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 95
Which of the following is the name of the routing update process involved when a change occurs in the routing environment?

A. Supernetting
B. Dynamic
C. Subnetting
D. Convergence

Correct Answer: D
Section: (none)
Explanation

QUESTION 96
Which of the following wireless technologies can operate at only 5GHz?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 97
Which of the following wireless technologies can support the MOST allowable MIMO streams?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 98
Which of the following wireless technologies can support the GREATEST distance on either 2.4GHz or 5GHz frequencies?

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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 99
Which of the following WAN protocols is a packet switching technology?

A. Frame Relay
B. POTS
C. PSTN
D. ISDN

Correct Answer: A
Section: (none)
Explanation

QUESTION 100
Which of the following WAN protocols is a circuit switching technology?

A. ISDN
B. SONET
C. Frame Relay
D. ATM

Correct Answer: A
Section: (none)
Explanation

QUESTION 101
Which of the following protocols allow the set up, teardown and streaming of VoIP traffic? (Select TWO).

A. NTP
B. VNC
C. RTP
D. SIP
E. TLS

Correct Answer: CD
Section: (none)
Explanation

QUESTION 102
Which of the following does a star ring topology use for data transfer?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 103
When verifying a new wireless installation the administrator is unable to see a wireless signal with any wireless laptop. The MOST likely problem is:

A. the SSID is not set to broadcast.
B. an incorrect channel is being used.
C. incorrect client security settings are configured.
D. incorrect client configuration on the laptops.

Correct Answer: A
Section: (none)
Explanation

QUESTION 104
Which of the following regulates the amount of network traffic a single node receives in a server cluster?

A. Load balancer
B. Proxy server
C. Content filter
D. Quality of service

Correct Answer: A
Section: (none)
Explanation

QUESTION 105
A web server is running correctly but sending a RST packet to any client trying to connect using

HTTP on TCP port 80. Which of the following tools should be used to determine the listening port of the web server?

A. route
B. ifconfig

C. netstat
D. nslookup

Correct Answer: C
Section: (none)
Explanation

QUESTION 106
Which of the following cable types is intended to be used on short distances and is immune to any type of interference?

A. Singlemode fiber
B. Multimode fiber
C. Shielded twisted pair
D. Unshielded twisted pair

Correct Answer: B
Section: (none)
Explanation

QUESTION 107
A remote user cannot connect to the office via VPN. The user has established Internet connectivity. Which of the following is the MOST likely next step in troubleshooting?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 108
Which of the following LAN technologies is considered fast Ethernet and uses two pairs of cabling, one pair for sending and the other pair for receiving?

A. 100BaseT4
B. 100BaseTX
C. 100BaseX
D. 100BaseFX

Correct Answer: B
Section: (none)
Explanation

QUESTION 109
A technician needs to install additional access points for a new high speed connection being added in the new

office space. Which of the following will MOST likely be installed to allow additional CAT5 cable connections?

A. Smart Jack
B. Demarc
C. 110 Block
D. 66 Block

Correct Answer: C
Section: (none)
Explanation

QUESTION 110
Which of the following security mitigation techniques is the MOST effective against zero-day attacks?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 111
Which of the following devices should an administrator connect to a protocol analyzer in order to collect all of the traffic on a LAN segment?

A. Hub
B. VLAN
C. Router
D. Server

Correct Answer: A
Section: (none)
Explanation

Exam D

QUESTION 1
Which of the following is used to create multiple networks from one large network?

A. PAT
B. NAT
C. Multicast
D. Subnetting

Correct Answer: D
Section: (none)
Explanation

QUESTION 2
Which of the following protocols is typically used for VoIP solutions?

A. IGMP
B. RTP
C. TLS
D. SSH

Correct Answer: B
Section: (none)
Explanation

QUESTION 3
A technician is working on a SOHO wireless network and notices that the wireless adaptor in the laptop shows excellent connection at 11Mbps. The technician has a wireless N adaptor. Which of the following would BEST describe this connection speed?

A. The laptop is too far away from the WAP.
B. The WAP is using 802.11a frequencies.
C. The laptop is only set to allow 802.11n connections.
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D. The technician is on an 802.11b network.

Correct Answer: D
Section: (none)
Explanation

QUESTION 4
An administrator is troubleshooting crosstalk issues. Which of the following should the administrator check FIRST?

A. WLAN channels
B. Port duplex
C. Proxy settings
D. Patch cables

Correct Answer: D

QUESTION 5
An administrator is troubleshooting a device that will not power on. Which of the following tools should the administrator use to check the wall outlet?

A. Toner probe
B. Cable tester
C. Multimeter
D. OTDR

Correct Answer: C
Section: (none)
Explanation

QUESTION 6
Which of the following will MOST likely use an ISDN PRI circuit?

A. Digital phone system
B. Cable modem
C. Analog phone system
D. Fax machine

Correct Answer: A
Section: (none)
Explanation

QUESTION 7
Which of the following technology types will create VPN connections between different offices on a WAN?

A. ATM
B. T1
C. MPLS
D. POTS

Correct Answer: C
Section: (none)
Explanation

QUESTION 8

A user connecting a laptop to a wall jack is prompted for user credentials before being granted access to the network. Which of the following is MOST likely implemented on the switch?

A. MAC filtering
B. PoE
C. IP filtering
D. 802.1x

Correct Answer: D
Section: (none)
Explanation

QUESTION 9
Which of the following is the MOST secure method to enable remote users to access a company's internal network resources?

A. VPN concentrator
B. Network-based firewall
C. DMZ
D. Stateful firewall

Correct Answer: A
Section: (none)
Explanation

QUESTION 10
Which of the following is MOST likely used to identify broadcast storms?

A. Voltage event recorder
B. Cable tester
C. Protocol analyzer
D. Port scanner

Correct Answer: C
Section: (none)
Explanation

QUESTION 11
Which of the following tools can be used to identify the location of a network outage?

A. traceroute
B. netstat
C. nslookup
D. ping

Correct Answer: A
Section: (none)
Explanation

QUESTION 12
Which of the following commands can be used to add a default gateway to a host?

A. route add 0.0.0.0 gw 192.168.1.1
B. traceroute -d 192.168.1.1
C. ping -s 1 192.168.1.1
D. ifconfig eth0 192.168.1.1 255.255.255.0
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Correct Answer: A
Section: (none)
Explanation

QUESTION 13
A company finished deploying an 802.11g wireless mesh. The administrator receives a call from a user who is unable to connect to the company wireless, though all network configurations are centrally managed. Which of the following is MOST likely causing the connection problem?

A. The access point has omni-directional antennas.
B. The end user is using an 802.11a wireless card.
C. The access point is not broadcasting the SSID.
D. The end user is using an 802.11b/g wireless card.

Correct Answer: B
Section: (none)
Explanation

QUESTION 14
A company finished upgrading the wireless encryption to WPA2 Enterprise. The administrator receives a call from a user who is unable to connect to the company wireless. Which of the following is MOST likely causing the connection problem?

A. The laptop is missing the software supplicant.
B. The access point SSID is hidden.
C. The laptop only supports TKIP and AES encryption.
D. The access point is on the wrong channel.

Correct Answer: A
Section: (none)
Explanation

QUESTION 15
Which of the following is inversely proportional to a wireless client connection speed?

A. Encryption of the connection
B. Frequency of the access point
C. ESSID length on the access point
D. Distance from the access point

Correct Answer: D
Section: (none)
Explanation

QUESTION 16
An administrator has recently separated the printer network to increase security. A user connects both a laptop and a network printer to the wall jack in the office. Both the laptop and the network printer successfully get their network configuration via DHCP, but the user reports that their laptop has no web access, but can print. Which of the following MOST likely occurred?

A. The laptop and the switch duplex setting do not match.

B. The laptop and switch port speed do not match.
C. The printer has the wrong DNS configuration.
D. The laptop is in the wrong VLAN.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 17
Which of the following is an example of a MAC address?

A. 10.0.10.1
B. 1A-23-F9-CD-06-9L
C. 1A-23-F9-CD-06-9B
D. 1A-23-F9-CD-06-9B-23-5C

Correct Answer: C
Section: (none)
Explanation

QUESTION 18
Kerberos is a form of user authentication that:

A. provides users access to network resources.
B. performs router commands after user authentication.
C. provides users with remote access only capabilities.
D. does not require an authentication server.

Correct Answer: A
Section: (none)
Explanation

QUESTION 19
Attackers use which of the following network scanners to see the protocols that are being used? (Select TWO).

A. IDS
B. Packet sniffer
C. Port scanners
D. Malware scanner
E. Ping sweep

Correct Answer: BC
Section: (none)
Explanation

QUESTION 20
Prioritizing traffic between data and voice is defined as which of the following?

A. Caching engines
B. Proxy server
C. QoS
D. Load balancing

Correct Answer: C
Section: (none)
Explanation

QUESTION 21
Which of the following would be used to optimize network performance and increase bandwidth availability?

A. Packet analysis
B. QoS
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C. Traffic shaping
D. Fault tolerance

Correct Answer: C
Section: (none)
Explanation

QUESTION 22
Which of the following would contain information regarding network device alerts using SNMP?

A. Syslog
B. Audit log
C. History log
D. Ping sweep reports

Correct Answer: A
Section: (none)
Explanation

QUESTION 23
Which of the following network appliances can BEST be described as allowing multiple servers to share requests for a website through the same public IP address?

A. VPN concentrator
B. Content filter
C. Load balancer
D. Proxy server

Correct Answer: C
Section: (none)
Explanation

QUESTION 24
A company executive has noticed that a wireless network signal from the company's WAP can be seen in the company's parking lot. The executive is very worried that this is a potential security threat. Which of the

following can be done to eliminate this threat?

A. Implement WEP encryption
B. Decrease signal strength
C. Change wireless channels
D. Rotate the SSID daily

Correct Answer: B
Section: (none)
Explanation

QUESTION 25
In which of the following topologies could the failure of one machine cause the entire network to stop functioning?

A. Mesh
B. Token ring
C. Star
D. Spanning tree

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 26
Which of the following wireless standards has the highest maximum data rate?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 27
Which of the following tools would a technician use to check functionality of a physical network connection?

A. Butt set
B. Cable tester
C. Protocol analyzer
D. Voltage event recorder

Correct Answer: B
Section: (none)
Explanation

QUESTION 28
Which of the following has a maximum data rate of 11Mbps?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 29
Several users are sending emails to CompTIA.org, but they are not being received. Which of the following commands could be used to verify that the company is able to connect to the mail service at CompTIA.org?

A. ping
B. arp
C. dig
D. telnet

Correct Answer: D
Section: (none)
Explanation

QUESTION 30
Which of the following are valid MAC addresses? (Select TWO).

A. 00-1C-1F-2C-13-43
B. FFFF.FFFF.FFFF
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C. 00-1B-26-3F-B1-16-34
D. 00-01-1E-2F-B3-16-01
E. 001C.1G2F.1234

Correct Answer: AB
Section: (none)
Explanation

QUESTION 31
A firewall acts at which layer of the OSI model to perform content filtering?

A. Session
B. Presentation
C. Network
D. Application

Correct Answer: D
Section: (none)
Explanation

QUESTION 32
Which of the following is the purpose of QoS?

A. Load balance traffic across multiple LAN and WAN links.
B. Increase speed of network traffic.
C. Classify, mark, and prioritize traffic on WAN and LAN links.
D. Guarantee traffic delivery.

Correct Answer: C
Section: (none)
Explanation

QUESTION 33
Which of the following services can an administrator use to reduce latency and prioritize the flow of data?

A. Fault tolerance
B. RADIUS
C. QoS
D. Load balancing

Correct Answer: C
Section: (none)
Explanation

QUESTION 34
Which of the following commands would allow a computer to acquire an IP address?

A. ipconfig /release
B. ipconfig /renew
C. ipconfig /all
D. ipconfig /help

Correct Answer: B
Section: (none)
Explanation

QUESTION 35

Which of the following exterior routing protocols uses an algorithm to determine the quickest route to a destination?

A. RIP
B. OSPF
C. BGP
D. RIPv2

Correct Answer: C
Section: (none)
Explanation

QUESTION 36
Which of the following routing protocols runs over UDP and determines path based upon distance vectors?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 37
Which of the following is the main purpose of port scanners?

A. Sniffing the network.
B. Scanning the network for the sending of clear text passwords.
C. Identify open TCP connections on the network.
D. Identify open ports on the network.

Correct Answer: D
Section: (none)
Explanation

QUESTION 38
Which of the following OSI model layers is used for logical addressing?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 39
Which of the following is an intelligent repeater that is aware of the MAC addresses of the nodes on either side of the data link?

A. Gateway
B. Hub
C. Bridge
D. Router
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Correct Answer: C
Section: (none)
Explanation

QUESTION 40
Which of the following is used to reduce the number of public IP addresses required?

A. RADIUS
B. SNAT
C. PAT
D. NAT

Correct Answer: D
Section: (none)
Explanation

QUESTION 41
Which of the following is the MAIN purpose of a packet sniffer?

A. To determine open ports on a server
B. To ensure encryption is being used
C. To analyze network traffic
D. To prevent network intrusion

Correct Answer: C
Section: (none)
Explanation

QUESTION 42
On which of the following network devices would an administrator configure an ACL?

A. Router
B. Hub
C. Repeater
D. NIC

Correct Answer: A
Section: (none)
Explanation

QUESTION 43
Which of the following connectors is MOST commonly associated with a physical bus topology?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 44

Which of the following processes translates a private IP address for a public IP address?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 45
Which of the following connectors would be on a fiber cable?

A. DB-25
B. LC
C. DB-9
D. BNC

Correct Answer: B
Section: (none)
Explanation

QUESTION 46
Which of the following devices would allow a technician using a packet sniffer to view all the data on a network?

A. GBIC
B. Hub
C. Bridge
D. Modem

Correct Answer: B
Section: (none)
Explanation

QUESTION 47
In which of the following layers of the OSI model does the TCP protocol operate?

A. Session
B. Network
C. Data link
D. Transport

Correct Answer: D
Section: (none)
Explanation

QUESTION 48
When the DHCP server is unavailable for a network, how will PCs attempt to configure their NICs?

A. PCs will attempt to use the last address assigned to them.
B. PCs will pull from a static address pool.
C. PCs will use APIPA.
D. PCs will prompt the user for an address.

Correct Answer: C
Section: (none)
Explanation

QUESTION 49
Which of the following allows a technician to mask a private network of IP addresses behind one

public IP address?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 50
Which of the following basic devices blocks ports and can sometimes filter data?

A. Repeater
B. Hub
C. Firewall
D. Switch

Correct Answer: C
Section: (none)
Explanation

QUESTION 51
Which of the following would help a new administrator quickly determine if a network had a VLAN for its publicly accessible servers?

A. Baselines
B. Regulations
C. Logical network diagrams
D. Wiring schematics

Correct Answer: C
Section: (none)
Explanation

QUESTION 52
Which of the following is resistant to crosstalk?

A. 1000Base-T
B. 10GBase-CX
C. 100Base-FX
D. STP

Correct Answer: C
Section: (none)
Explanation

QUESTION 53
A network administrator has been receiving work orders about poor voice quality crossing a branch T1. The cause is determined to be users running high bandwidth file sharing applications across the T1 sending large packets delaying the smaller voice streams. Which of the following would improve voice quality?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 54
Which of the following devices is used to connect a WAN to a LAN?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 55
A new segment needs to be added to a network to provide access for 64 servers. Which of the following subnets will provide the needed access and still conserve IP addresses?

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

Correct Answer: D
Section: (none)

Explanation

QUESTION 56
PPTP is a combination of which of the following protocols? (Select TWO).

A. PPP
B. TCP/IP
C. TCP
D. POP3
E. PPPoE

Correct Answer: AB
Section: (none)
Explanation

QUESTION 57
Which of the following is the default DNS port?

A. 23
B. 53
C. 143
D. 443

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 58
Which of the following wireless standards can be used to avoid the 2.4GHz range? (Select TWO).

A. 802.11g
B. 802.1x
C. 802.11b
D. 802.11n
E. 802.11a

Correct Answer: DE
Section: (none)
Explanation

QUESTION 59
A network IPS provides which of the following?

A. The layer 3 protocol on which other protocols like TCP and UDP communicate.
B. Enables the IPSec protocol on internal workstations.
C. Packet-based detection and prevention of network attacks.
D. Single mode IP communication for a fiber line between remote sites.

Correct Answer: C
Section: (none)
Explanation

QUESTION 60
Which of the following protocols defaults to port 161?

A. SFTP
B. SNMP
C. SMTP
D. SNTP

Correct Answer: B
Section: (none)
Explanation

QUESTION 61
Which of the following ports are used by default for web servers? (Select TWO).

A. 80
B. 110
C. 123
D. 143
E. 443

Correct Answer: AE
Section: (none)
Explanation

QUESTION 62
Which of the following is the full range of address block 192.168.76.0/23?

A. 192.168.76.0 - 192.168.77.255
B. 192.168.76.0 - 192.168.76.255
C. 192.168.76.0 - 192.168.76.23
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D. 192.168.76.0 - 192.168.78.0

Correct Answer: A
Section: (none)
Explanation

QUESTION 63
An administrator only has one public IP address that must be shared among five employees. Which of the following network schemes should be used?

A. SNAT
B. SNAP
C. NAC

D. MPLS

Correct Answer: A
Section: (none)
Explanation

QUESTION 64
Which of the following protocols is the LEAST secure and should be avoided on a wireless network?

A. WEP
B. PEAP
C. WPA
D. TKIP

Correct Answer: A
Section: (none)
Explanation

QUESTION 65
Which of the following features is essential in a firewall if it is to support RTP sessions?

A. Remote console
B. Statefulness
C. Address translation
D. Zones

Correct Answer: B
Section: (none)
Explanation

QUESTION 66
Which of the following represents the physical address of a network access card?

A. FF01:D2:C4:87::11
B. 00-30-48-83-9B-C8
C. 08-9D-35-22-L2-34-FF-21
D. 2D1A:C3:0:1C3B:2AD:FF:FEBE:9D3A

Correct Answer: B
Section: (none)
Explanation

QUESTION 67
Which of the following connector types is commonly identified by two rows of pins with four in one

row and five in the other?

A. DB-9

B. RJ-45
C. SC
D. BNC

Correct Answer: A
Section: (none)
Explanation

QUESTION 68
Which of the following cable types would MOST likely be used with BNC connectors?

A. CAT3
B. RG-6
C. STP
D. CAT6

Correct Answer: B
Section: (none)
Explanation

QUESTION 69
Users report an intermittent degradation of sound on their IP phones. Which of the following would a network administrator do to alleviate the problem?

A. Use plenum cables.
B. Provide fault tolerance for the switch.
C. Configure VLAN trunking on the switch.
D. Configure QoS.

Correct Answer: D
Section: (none)
Explanation

QUESTION 70
The administrator's ISP indicates that they will need an autonomous system number to begin routing external network traffic. Which of the following protocols should the ISP plan to use?

A. IS-IS
B. RIPv2
C. OSPF
D. BGP

Correct Answer: D
Section: (none)
Explanation

QUESTION 71
Which of the following can be used to mitigate network congestion from users streaming media?

A. Traffic shaping
B. Caching gateway

C. Broadcast traffic optimization
D. Protocol analyzer

Correct Answer: A
Section: (none)
Explanation

QUESTION 72
Which of the following features does SNMPv3 have over previous versions when remotely monitoring networking devices? (Select TWO).

A. Trap receivers
B. HTTPS
C. Authentication
D. Privacy
E. Availability

Correct Answer: CD
Section: (none)
Explanation

QUESTION 73
Two business partners have recently been connected via a dedicated extranet. It has been discovered that each of the companies are using the same private IP address space. Which of the following will help to resolve potential routing issues?

A. Multicast
B. PAT
C. CIDR
D. NAT

Correct Answer: D
Section: (none)
Explanation

QUESTION 74
Which of the following is the term used to describe the aggregation of multiple components to form one logical component?

A. Bonding
B. Circuit switching
C. CSMA/CD
D. Channelization

Correct Answer: A
Section: (none)
Explanation

QUESTION 75

An administrator needs to authenticate users to the network, authorize network activities, and account for activities done. Which of the following are services that will BEST meet these goals? (Select TWO).

A. TACACS+
B. RADIUS
C. Kerberos
D. 802.1x
E. RRAS

Correct Answer: AB
Section: (none)
Explanation

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QUESTION 76
Which of the following describes the location where an administrator would terminate a bundle of CAT5e cables?

A. Switch
B. Smart jack
C. Router
D. Patch panel

Correct Answer: D
Section: (none)
Explanation

QUESTION 77
Which of the following describes a network packet that is sent to all IP addresses in a subnet?

A. Multicast packet
B. Retransmitted packet
C. Traffic shaped packet
D. Broadcast packet

Correct Answer: D
Section: (none)
Explanation

QUESTION 78
Office A is located 500 miles (805 kilometers) away from Office B, yet they are on the same private network. Which of the following is MOST likely being used to accomplish this scenario?

A. Trunking
B. LAN
C. VPN
D. Peer to peer

Correct Answer: C
Section: (none)

Explanation

QUESTION 79
An administrator is setting up a security camera that will send the same feed to twelve of the twenty workstations on the network. Which of the following addressing schemes was designed for this scenario?

A. Multicast
B. Unicast
C. Broadcast
D. Peer-to-peer

Correct Answer: A
Section: (none)
Explanation

QUESTION 80
Which of the following technologies transfers data over an analog signal?

A. ISDN
B. POTS
C. DOCSIS
D. ADSL

Correct Answer: B
Section: (none)
Explanation

QUESTION 81
Which of the following technologies was designed to provide the FASTEST data rates over analog phone lines?

A. RADSL
B. SONET
C. ADSL
D. MPLS

Correct Answer: C
Section: (none)
Explanation

QUESTION 82
Which of the following WAN technologies modulates 24 channels into a 1.5Mbps signal?

A. ISDN
B. PSTN
C. OC-24
D. T1

Correct Answer: D

QUESTION 83
Which of the following would MOST likely be used with multimode fiber?

A. 10GBaseLR
B. 10GBaseT
C. 10GBaseER
D. 10GBaseSR

Correct Answer: D
Section: (none)
Explanation

QUESTION 84
Which of the following is the MOST likely reason that two computers in different VLANs, on the same Layer 2 switch, are unable to communicate with each other?

A. IGMP snooping should be enabled on the switch.
B. A router is needed to route traffic between the VLANs.
C. The computers do not support ARP proxy.
D. Spanning trees between the VLANs need to be converged.

Correct Answer: B
Section: (none)
Explanation

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QUESTION 85
Which of the following is the MAIN disadvantage of using the spanning tree protocol?

A. The root port must have gigabit speeds.
B. It only runs at Layer 3.
C. It is a vender specific protocol.
D. Convergence takes too long.

Correct Answer: D
Section: (none)
Explanation

QUESTION 86
Link aggregation is also known as port:

A. distribution.
B. mirroring.
C. spanning.
D. trunking.

Correct Answer: D
Section: (none)
Explanation

QUESTION 87
Which of the following is the MOST likely authentication scheme used in 802.1x?

A. CHAP
B. RADIUS
C. TACACS+
D. Kerberos

Correct Answer: B
Section: (none)
Explanation

QUESTION 88
An administrator is configuring IP 10.178.1.5 on a legacy device that will only accept a classful address. Which of the following is the address that can be used in this scenario?

A. 10.178.1.5/1
B. 10.178.1.5/8
C. 10.178.1.5/16
D. 10.178.1.5/30

Correct Answer: B
Section: (none)
Explanation

QUESTION 89
When debugging a routing problem, the time-to-live (TTL) value can be used to determine:

A. number of routes available.
B. number of router hops.
C. time that an advertised route is valid.
D. time to make a round trip.
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Correct Answer: B
Section: (none)
Explanation

QUESTION 90
Which of the following is a disadvantage of using the EIGRP protocol?

A. It does not scale well.
B. It converges slower than OSPF.
C. It is a proprietary protocol.
D. It is a distance vector protocol.

Correct Answer: C
Section: (none)
Explanation

QUESTION 91
Which of the following is a reason to block FTP at the corporate firewall?

A. It does not transfer encrypted files.
B. It cannot be tunneled in a VPN.
C. It is a deprecated protocol.
D. It transmits passwords in clear text.

Correct Answer: D
Section: (none)
Explanation

QUESTION 92
A small office in which all workstations are using an ISP provided IP range has noticed a consistent decrease in network traffic speed. The decrease does not occur when the gateway to the ISP is disconnected. Which of the following should the administrator implement?

A. Multicast addressing
B. Load balancing
C. Address translation
D. DHCP

Correct Answer: C
Section: (none)
Explanation

QUESTION 93
Which of the following BEST describes ISDN?

A. Circuit switching, digital signaling, interfaces carry multiple channels
B. Carrier sense, multiple access points, collision detection on multiple workstations
C. Coaxial cable, token passing, local area network
D. Cell switching, 53-byte cells, uniform handling of voice and data

Correct Answer: A
Section: (none)
Explanation

QUESTION 94
A VPN connection is not working correctly and the technician is unable to ping the VPN server. Which of the following actions should the technician do FIRST?

A. Call their local ISP
B. Verify the IP information of the server

C. Check their local Internet connection

D. Verify the hostname of the server

Correct Answer: C
Section: (none)
Explanation

QUESTION 95
If an IPSec session is not working correctly, which of the following would a technician do FIRST?

A. Check that IGMP is enabled on the network switch

B. Verify that IPSec service is running on the DNS server

C. Verify that the correct SNMP strings are setup on each system

D. Check whether their system is set to the correct IPSec setting

Correct Answer: D
Section: (none)
Explanation

QUESTION 96
Which of the following protocols can be used to retrieve system and network performance information from a router?

A. LDAP

B. IMAP

C. TFTP

D. SNMP

Correct Answer: D
Section: (none)
Explanation

QUESTION 97
A zone transfer occurs over which of the following ports?

A. TCP 53

B. UDP 67

C. UDP 123

D. TCP 25

Correct Answer: A
Section: (none)
Explanation

QUESTION 98
An organization wants to minimize the amount of traffic caused by streaming video over the WAN. Which of the following would the network administrator implement?

A. Multicasting

B. Load balancing

C. VLAN Trunking

D. GRE tunneling

Correct Answer: A
Section: (none)
Explanation

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QUESTION 99
If the goal is to minimize the amount of time it takes for other routers in the network to learn about a routing change, the network administrator should choose a routing protocol that has the shortest:

A. path.
B. multipath.
C. convergence.
D. link state.

Correct Answer: C
Section: (none)
Explanation

QUESTION 100
An administrator needs to install a new 100 foot (30 meter) cable run from an IDF switch to the MDF, through a room that has a large number of motors. Which of the following would be the BEST cable type to choose?

A. CAT3
B. STP
C. Coaxial
D. Fiber

Correct Answer: D
Section: (none)
Explanation

QUESTION 101
Which of the following is most effective against threats when used with an updated server? (Select TWO).

A. Kerberos server
B. Stateful firewall
C. Content filter
D. IDS
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E. VPN concentrator

Correct Answer: CD
Section: (none)
Explanation

QUESTION 102

A software vender wants to distribute free updates for clients via the web. Which of the following protocols would be the MOST efficient to distribute the updates?

A. DNS
B. SSH
C. TLS
D. FTP

Correct Answer: D
Section: (none)
Explanation

QUESTION 103
A technician needs to install additional access points for a new high speed connection being added in the new office space. Which of the following will MOST likely be installed to allow additional CAT5 cable connections?

A. Smart Jack
B. Demarc
C. 110 Block
D. 66 Block
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Correct Answer: C
Section: (none)
Explanation

QUESTION 104
802.11g wireless signals operating at 2.4GHz has a maximum line of sight range of which of the following?

A. 460 feet (140 meters)
B. 540 feet (165 meters)
C. 560 feet (171 meters)
D. 840 feet (256 meters)

Correct Answer: A
Section: (none)
Explanation

QUESTION 105
An administrator finds a phone line but does not know where the line goes or if it is active. Which of the following can be used to test if it is active?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 106
An administrator needs to terminate network cables that have just been installed in the main communications closet. Which of the following tools is required?

A. Multimeter
B. Snips
C. Toner probe
D. Punch down tool

Correct Answer: D
Section: (none)
Explanation

QUESTION 107
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Which of the following is a valid IP address in the public addressing scheme?

A. 10.20.1.1
B. 168.192.10.1
C. 233.10.20.1
D. 172.20.10.1

Correct Answer: B
Section: (none)
Explanation

QUESTION 108
An administrator is concerned about users utilizing the company's wireless signal with their personal laptops. Which of the following is the BEST method to use to prevent unauthorized devices from using the company's wireless network?

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A. Secure VPN
B. MAC filtering
C. IP filtering
D. Static IP addresses

Correct Answer: B
Section: (none)
Explanation

QUESTION 109
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The network technician is troubleshooting a network issue by implementing a new security device. After installing and configuring the device, which of the following steps should the technician take NEXT?

A. Verify full system functionality.
B. Identify the main problem and question the user.
C. Document their findings, actions, and outcomes.
D. Escalate the issue to upper management.

Correct Answer: A
Section: (none)
Explanation

Exam E

QUESTION 1
Which of the following network cable types requires grounding?

A. STP
B. UTP
C. Fiber
D. Serial

Correct Answer: A
Section: (none)
Explanation

QUESTION 2
When configured, MPLS can increase routing redundancy by providing which of the following network topology types?

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

Correct Answer: B
Section: (none)
Explanation

QUESTION 3
An administrator is troubleshooting a communication issue between two computers on the same Layer 2 switch. Which of the following is the BEST way to determine if the switch is causing the

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issue?

A. Setup an ACL that allows and logs all IP traffic between the two computers
B. Configure a spanning tree to check for a loop
C. Setup a span port on the switch to watch for CRC errors
D. Connect both computers using a crossover cable

Correct Answer: D
Section: (none)
Explanation

QUESTION 4
Which of the following wiring distribution components should be chosen to provide level integrated diagnostic capabilities?

A. Vampire tap
B. Smart jack
C. Demarcation point

D. Programmable logic controller

Correct Answer: B
Section: (none)
Explanation

QUESTION 5
Which of the following wiring distribution components uses a bridge clip to connect both sides of the block?

A. 110 block
B. Demarc
C. Smart jack
D. 66 block

Correct Answer: D
Section: (none)
Explanation

QUESTION 6
Which of the following would an administrator use to standardize all cross connects on a RJ-45 jack?

A. Patch panel
B. 110 block
C. 66 block
D. Smart jack

Correct Answer: A
Section: (none)
Explanation

QUESTION 7
An administrator is using a protocol analyzer to monitor traffic between two servers. However, the only traffic that appears is broadcast and traffic originating from the administrator's PC. Which of the following devices is the administrator plugged into?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 8
Which of the following regulates the amount of network traffic a single node receives in a server cluster?

A. Load balancer
B. Proxy server

C. Content filter

D. Quality of service

Correct Answer: A
Section: (none)
Explanation

QUESTION 9
A user plugged a cable between two network jacks that attach to the same switch and caused a broadcast storm. Which of the following would have prevented the broadcast storm?

A. Spanning tree

B. VLAN tagging

C. 802.1x

D. Port mirroring

Correct Answer: A
Section: (none)
Explanation

QUESTION 10
Which of the following features should an administrator configure to allow an IDS to watch the traffic on a switch?

A. ARP spoofing

B. VLAN

C. Mirroring

D. Spanning tree

Correct Answer: C
Section: (none)
Explanation

QUESTION 11
Which of the following does the AP use to broadcast the SSID of the wireless network to allow clients to find and connect to the network?

A. WPA

B. Association

C. Beacon

D. Probe

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 12
An administrator is deploying three B/G wireless access points in a new office location. Which of the following

channels eliminates interference?

A. 1, 6, and 11
B. 3, 6, and 9
C. 11, 16, and 20
D. 36, 40, and 44

Correct Answer: A
Section: (none)
Explanation

QUESTION 13
An administrator just installed a new DS3 WAN circuit providing 45Mbps. However, multiple users at the site report slowness when accessing remote resources. Which of the following tools should the administrator use to diagnose the issue?

A. Crossover cable
B. Loopback plug
C. Content filter
D. Throughput tester

Correct Answer: D
Section: (none)
Explanation

QUESTION 14
An administrator wants to limit the wireless guest network traffic to 100Kbps so that utilization issues do not occur on the company's T1 Internet access network. Which of the following optimizations should the administrator implement?

A. Load balancing
B. Caching engine
C. Traffic shaping
D. Quality of service

Correct Answer: C
Section: (none)
Explanation

QUESTION 15
A computer is able to ping other devices on the same network but is unable to ping devices on another network. Which of the following needs to be configured?

A. DNS primary server
B. Host route
C. Proxy ARP
D. Default gateway

Correct Answer: D
Section: (none)
Explanation

QUESTION 16
A web server is running correctly but sending a RST packet to any client trying to connect using

HTTP on TCP port 80. Which of the following tools should be used to determine the listening port of the web server?

A. route
B. ifconfig
C. netstat
D. nslookup

Correct Answer: C
Section: (none)
Explanation

QUESTION 17
Which of the following provides VPN services at the HIGHEST OSI level?

A. PPPoE
B. IPSec
C. L2TP
D. SSL

Correct Answer: D
Section: (none)
Explanation

QUESTION 18
Which of the following restricts network access to a router administrator's interface?

A. IDS
B. SSL
C. ACL
D. SMNPv2

Correct Answer: C
Section: (none)
Explanation

QUESTION 19
Which of the following protocols is commonly used by ping?

A. SIP
B. ICMP
C. TFTP
D. ARP

Correct Answer: B

QUESTION 20
Which of the following ports is associated with FTP?

A. 20
B. 23
C. 53
D. 3389

Correct Answer: A
Section: (none)
Explanation

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QUESTION 21
Which of the following technologies facilitates the conversion of internal private IP addressing to external public IP addressing?

A. DHCP
B. TCP/IP
C. NAT
D. SNMP

Correct Answer: C
Section: (none)
Explanation

QUESTION 22
Which of the following is a TRUE statement about static routing vs. dynamic routing?

A. Dynamic routing is created adhoc and static routing cannot be changed once implemented.
B. Static routing is hard-coded and requires significant administrative overhead for large networks.
C. Static routing requires little administrative overhead and dynamic routing requires significant administrative overhead.
D. Dynamic routing is the best solution for small networks and static routing is the best solution for large scale networks.

Correct Answer: B
Section: (none)
Explanation

QUESTION 23
Using network monitoring tools would allow an administrator to do which of the following?

A. Configure offline devices
B. Examine performance issues
C. Install additional software and updates

D. View syslog events

Correct Answer: B
Section: (none)
Explanation

QUESTION 24
Which of the following statements is TRUE regarding static routing tables?

A. They are used in large and complex networks.
B. They update certain aspects automatically.
C. They are easy to configure and maintain.
D. They are harder to maintain.

Correct Answer: D
Section: (none)
Explanation

QUESTION 25
Which of the following cable types is intended to be used on short distances and is immune to any type of interference?

A. Singlemode fiber
B. Multimode fiber
C. Shielded twisted pair
D. Unshielded twisted pair

Correct Answer: B
Section: (none)
Explanation

QUESTION 26
A network technician is troubleshooting a network issue that has just been reported. Which of the following troubleshooting steps should the technician take FIRST to help resolve this issue?

A. Record the solution in the appropriate logs for future use.
B. Ask the user who reported the issue what past documentation they have.
C. Ask the user who reported the issue to explain the symptoms in detail.
D. Record what steps should be taken to resolve the issue.

Correct Answer: C
Section: (none)
Explanation

QUESTION 27
Which of the following tools is used to show the active routes on a workstation?

A. nbstat

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 28
Which of the following authentication protocols uses certificates to negotiate access to the network?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 29
One end of a CAT5 cable is punched down following the 568B standard. The other end should be terminated using which standard to make a straight-through cable?

A. 568B
B. RJ-11
C. RJ-45
D. 568A
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Correct Answer: A
Section: (none)
Explanation

QUESTION 30
Which of the following traffic types would a network layer firewall be unable to filter?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 31
An administrator is troubleshooting wireless connectivity issues at a client's office and discovers that the machine loses connectivity when the wireless phone is being used. Which of the following WAPS should be installed to help resolve the issue?

A. 802.11g
B. 802.1x
C. 802.11n
D. 802.11b

Correct Answer: C
Section: (none)
Explanation

QUESTION 32
On a network switch, which of the following is the default native VLAN?

A. 0
B. 1
C. 1024
D. 4096

Correct Answer: B
Section: (none)
Explanation

QUESTION 33
An administrator would like to test the firewall rules on a corporate network. Which of the following tools would MOST likely be used?

A. Port scanner
B. Ping sweep
C. Traffic shaper
D. Packet sniffer

Correct Answer: A
Section: (none)
Explanation

QUESTION 34
A user reports that the entire corporate network is down. Which of the following should the technician do FIRST?

A. Implement a solution and test the results.
B. Identify if there are any other symptoms.
C. Create an action plan and identify its effects.
D. Escalate to a senior engineer.

Correct Answer: B
Section: (none)
Explanation

QUESTION 35
After reports of network performance problems, the technician determines that the switch firmware should be updated. Which of the following should the technician do NEXT?

A. Identify the results and effects of the solution.
B. Document the solution and the entire process.
C. Identify the affected areas of the network.
D. Create an action plan and identify potential effects.

Correct Answer: D
Section: (none)
Explanation

QUESTION 36
In order for computers with private IP addresses to access the public Internet, which of the following must the router perform?

A. NAT
B. BGP
C. DHCP
D. APIPA

Correct Answer: A
Section: (none)
Explanation

QUESTION 37
Which of the following networks are reserved for private IP addresses?

A. 168.129.0.0/24
B. 172.16.128.0/15
C. 192.168.0.0/16
D. 162.17.0.0/12

Correct Answer: C
Section: (none)
Explanation

QUESTION 38
Which of the following is the MAXIMUM distance a single 1000BaseT segment can cover?

A. 100 kilometers (62 miles)
B. 10 kilometers (6 miles)
C. 1000 meters (3281 feet)
D. 100 meters (328 feet)

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
At which of the following does the telephone company's responsibility cease?

A. 66 block
B. Demarc
C. 110 block
D. MDF

Correct Answer: B
Section: (none)
Explanation

QUESTION 40
When installing a wireless network in a large area, which of the following is the FIRST thing that should be considered when trying to get the MOST coverage?

A. SSID naming
B. Device placement
C. Encryption methods
D. Channel selection

Correct Answer: B
Section: (none)
Explanation

QUESTION 41
Which of the following devices will allow a technician to measure the amount of data that is capable of traversing the network?

A. Event logs
B. Throughput tester
C. Packet sniffers
D. OTDR

Correct Answer: B
Section: (none)
Explanation

QUESTION 42
Which of the following tools would an administrator use to record and display data passing through the network?

A. Toner probe
B. TDR
C. Protocol analyzer
D. Event recorder

Correct Answer: C
Section: (none)
Explanation

QUESTION 43
Which of the following devices will measure the amount of EMI that a network cable emits?

A. Cable tester
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B. OTDR
C. Protocol analyzer
D. TDR

Correct Answer: D
Section: (none)
Explanation

QUESTION 44
Which of the following has a MAXIMUM distance of 300 meters (984 feet)?

A. 1000BaseT
B. 10GBaseSW
C. 100BaseFX
D. 100BaseTX

Correct Answer: B
Section: (none)
Explanation

QUESTION 45
Which of the following is typically used in an LAN environment?

A. 10GBaseSW
B. 10GBaseLW
C. 10GBaseSR
D. 10GBaseEW

Correct Answer: C
Section: (none)
Explanation

QUESTION 46
A user in the accounting department reports that their office is able to connect to the network, but they are unable to connect to the Internet. Which of the following documentation would be the MOST useful to the administrator in diagnosing this issue? (Select TWO).

A. Physical network diagram
B. Job log
C. Acceptable use policy
D. Baseline documentation
E. Wiring schematic

Correct Answer: AE

QUESTION 47
An administrator reports to work in the morning to find that all of the company's computers have not received the nightly updates. Which of the following should the administrator check FIRST to determine the issue?

A. Wiring schematic
B. Acceptable use policy
C. Error logs
D. Session logs
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Correct Answer: C
Section: (none)
Explanation

QUESTION 48
An administrator is reviewing helpdesk tickets and discovers multiple tickets for "unable to print" and "no Internet connectivity". Which of the following documents would BEST provide information to help diagnose the issue?

A. Wiring schematic
B. Policies
C. Logical network diagram
D. Baseline

Correct Answer: C
Section: (none)
Explanation

QUESTION 49
An administrator would like to turn off web-based administration access to critical network routers and switches. Which of the following ports should be blocked? (Select TWO).

A. 21
B. 23
C. 80
D. 110
E. 443

Correct Answer: CE
Section: (none)
Explanation

QUESTION 50
The "1000" in 1000BaseT cabling represents which of the following?

A. The theoretical maximum cable length
B. The theoretical maximum bandwidth

C. The theoretical port limit of the cable
D. The quality level of the copper wiring used

Correct Answer: B
Section: (none)
Explanation

QUESTION 51
After 100 meters (328 feet), CAT6 cabling is known to experience which of the following symptoms?

A. Signal loss
B. Signal bleed
C. Data collision
D. Crosstalk

Correct Answer: A
Section: (none)
Explanation

QUESTION 52

If cable is rated for 10GBaseT, how much theoretical bandwidth can this cable provide in megabits per second (Mbps)?

A. 10Mbps
B. 100Mbps
C. 1000Mbps
D. 10000Mbps

Correct Answer: D
Section: (none)
Explanation

QUESTION 53
In an enterprise setting, access switches providing network connectivity placed throughout a building are typically connected to a backbone called the:

A. MDF.
B. proxy.
C. demarcation point.
D. smart jack.

Correct Answer: A
Section: (none)
Explanation

QUESTION 54
Which of the following is true about an IP address if the first bit is a zero?

A. The address is a Class A address.
B. The address is a Class B address.
C. The address is a Class C address.
D. The address is a Class D address.

Correct Answer: A
Section: (none)
Explanation

QUESTION 55
Which of the following are valid values for an octet of a subnet mask? (Select TWO).

A. 0
B. 1
C. 253
D. 255
E. 256

Correct Answer: AD
Section: (none)
Explanation

QUESTION 56
All of the following are valid subnet masks EXCEPT:

A. 255.255.253.0
B. 255.255.255.0
C. 255.255.0.0
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D. 255.255.240.0

Correct Answer: A
Section: (none)
Explanation

QUESTION 57
Which of the following is an invalid subnet mask?

A. 255.0.0.0
B. 255.256.255.0
C. 255.255.255.255
D. 255.255.0.0

Correct Answer: B
Section: (none)
Explanation

QUESTION 58
Which of the following should be used to test an internal NIC without having to connect it to the network?

A. Loopback cable
B. Crossover cable
C. Rollover cable
D. Straight cable

Correct Answer: A
Section: (none)
Explanation

QUESTION 59
Which of the following commands would be used to display the IP address on a UNIX/Linux computer?

A. netstat
B. ipconfig
C. ifconfig
D. dig

Correct Answer: C
Section: (none)
Explanation

QUESTION 60
Which of the following commands will display the routing table on a UNIX/Linux computer?

A. ipconfig
B. route
C. mtr
D. netstat

Correct Answer: B
Section: (none)
Explanation

QUESTION 61
Which of the following would need to be implemented on a wireless router to allow network access

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based on a passphrase that the administrator would supply?

A. WPA-PSK encryption
B. SSID broadcast
C. Port forwarding
D. MAC filtering

Correct Answer: A
Section: (none)
Explanation

QUESTION 62

An administrator is setting up a network and would like to prevent users from having the ability to plug their PC into the network to receive an IP address. Which of the following addressing schemes should the technician use?

A. NAT
B. Dynamic
C. Subnetting
D. Static

Correct Answer: D
Section: (none)
Explanation

QUESTION 63
An administrator replaced a router with a switch. End users are able to access network shares but are not able to access the Internet. Which of the following is the BEST explanation why the users are unable to access the Internet?

A. Router routes traffic between different networks and a switch does not.
B. The new switch is faulty and needs to be replaced and configured correctly.
C. The firewall needs to be setup to allow traffic to reach the Internet.
D. The switch needs to be setup to forward data traffic to the Internet.

Correct Answer: A
Section: (none)
Explanation

QUESTION 64
Which of the following is used by RADIUS to encrypt messages between the server and the client?

A. Public key
B. CSU/DSU
C. Private key
D. Shared secret

Correct Answer: D
Section: (none)
Explanation

QUESTION 65
Which of the following is true of an ACL when a packet matching an ACE is found?

A. The matching ACE is skipped to allow all other ACEs to be examined.
B. The matching ACE is processed and then the last ACE is examined.
C. The matching ACE is processed and then the next ACE is examined.
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D. The matching ACE is processed and the next packet is examined.

Correct Answer: D
Section: (none)
Explanation

QUESTION 66
Which of the following is encrypted when IPSec operates in tunnel mode? (Select TWO).

A. Payload information
B. Header information
C. IP address of the tunnel termination points
D. Source MAC address
E. Destination MAC address

Correct Answer: AB
Section: (none)
Explanation

QUESTION 67
An administrator wants to be alerted when a network-based attack is underway, but the company policy prohibits blocking or dropping network connections. Which of the following MUST be deployed?

A. IDS
B. IPS
C. Firewall
D. Managed PKI

Correct Answer: A
Section: (none)
Explanation

QUESTION 68
A new company has been given one public IP address. The company employs 200 users requiring Internet access from the headquarters. Which of the following can be implemented to provide Internet access for all the employees?

A. Multicasting
B. Proxy server
C. NAT
D. Subnetting

Correct Answer: C
Section: (none)
Explanation

QUESTION 69
A technician at a company providing online, real-time media streaming to the Internet needs a network technology that will reduce bandwidth while delivering high throughput. Which of the following can the technician implement to fit these requirements?

A. Subnetting
B. Unicast
C. Broadcast
D. Multicast

Correct Answer: D
Section: (none)
Explanation

QUESTION 70
Which of the following protocols can lead to user credential disclosure when a network analyzer is used? (Select TWO).

A. TFTP
B. Telnet
C. FTP
D. RSH
E. SNMPv3

Correct Answer: BC
Section: (none)
Explanation

QUESTION 71
Which of the following should an administrator do after running a command from the console on the perimeter router?

A. Update the configuration logs
B. Update the network wiring schematics
C. Update the network configuration procedures
D. Compare the configuration with the baseline

Correct Answer: A
Section: (none)
Explanation

QUESTION 72
Which of the following tools would allow an administrator to push out a software update to all switches on the network?

A. Network management
B. Protocol analyzer
C. Network monitoring
D. System diagnostic

Correct Answer: A
Section: (none)
Explanation

QUESTION 73
Which of the following network topologies BEST describes a VPN? (Select TWO).

A. Point to Point
B. Point to Multipoint

C. VLAN
D. Ring
E. Bus

Correct Answer: AB
Section: (none)
Explanation

QUESTION 74

Which of the following routing protocols uses hop counts as a metric?

A. RIP
B. OSPF
C. IGRP
D. EIGRP

Correct Answer: A
Section: (none)
Explanation

QUESTION 75
Which of the following routing protocols involves all routers knowing the connections status of other routers within the network?

A. RIPv2
B. OSPF
C. IGRP
D. BGP

Correct Answer: B
Section: (none)
Explanation

QUESTION 76
An administrator needs to find a way to extend an existing DSL demarcation point location to where the switch will be installed. Which of the following would the administrator MOST likely use to terminate the extension?

A. 66 block
B. IDF
C. 110 block
D. 25 pair cable

Correct Answer: C
Section: (none)
Explanation

QUESTION 77
Which of the following is a secure method of copying information over a public network?

A. SCP
B. SMTP
C. SNMP
D. TFTP

Correct Answer: A
Section: (none)
Explanation

QUESTION 78
A workstation is having connectivity issues when being added to the domain. Which of the following commands would allow the administrator to see the DNS and WINS servers that are currently configured for the workstation?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 79
Which of the following network scanners detects and sends out alerts for malicious network activity?

A. Packet sniffers
B. IDS
C. Port scanners
D. IPS

Correct Answer: B
Section: (none)
Explanation

QUESTION 80
Which of the following is used to identify active hosts along with their network addresses?

A. Port scan
B. Ping sweep
C. IDS
D. NIPS

Correct Answer: B
Section: (none)
Explanation

QUESTION 81

After a power outage, the helpdesk receives multiple calls. Which of the following steps should a technician do NEXT?

A. Determine if anything else has changed.
B. Identify the affected areas.
C. Escalate part of the solution to the appropriate section.
D. Create an action plan.

Correct Answer: B
Section: (none)
Explanation

QUESTION 82
Users from different locations are reporting issues with various intranet sites. After identifying all the affected areas, which of the following should a technician do NEXT?

A. Establish the most probable cause.
B. Continue to identify new symptoms and problems elsewhere.
C. Create an action plan and solution identifying potential effects.
D. Determine what has recently changed.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 83
Which of the following is an EGP routing protocol?

A. IGP
B. OSPF
C. BGP
D. RIP

Correct Answer: C
Section: (none)
Explanation

QUESTION 84
Which of the following describes an area where communications equipment is stored?

A. HVAC
B. MDF
C. 110 block
D. Demarc

Correct Answer: B
Section: (none)
Explanation

QUESTION 85
Users are reporting that they are still experiencing network issues even though a fix was recently applied.
Which of the following troubleshooting methodology steps is the administrator using?

A. Escalating the problem
B. Testing the solution and identifying the effects
C. Continuing to gather information about the same symptoms
D. Documenting the solution and the entire process

Correct Answer: B
Section: (none)
Explanation

QUESTION 86
Web users are reporting issues downloading various types of media. Which of the following should the
administrator do FIRST?

A. Find out what has recently changed on the network.
B. Create an action plan and solution identifying potential effects.
C. Continue to gather information and see what other problems may exist.
D. Determine the most probable cause.

Correct Answer: C
Section: (none)
Explanation

QUESTION 87
Multiple users call from the same location saying that they have no network connectivity. The administrator is
unable to ping the main switch at that IDF. Which of the following configuration management documents would
the administrator MOST likely consult to troubleshoot the issue?

A. Baseline configuration
B. Security policy
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C. Performance and transaction logs
D. Physical network diagram

Correct Answer: D
Section: (none)
Explanation

QUESTION 88
An administrator has completed the installation of a new WLAN. Which of the following configuration
management documents needs to be updated?

A. Logical network diagram
B. History logs
C. Baseline configurations
D. Wiring schematics

Correct Answer: A
Section: (none)
Explanation

QUESTION 89
Which of the following protocols uses port 119, by default?

A. NNTP
B. NTP
C. TFTP
D. FTP

Correct Answer: A
Section: (none)
Explanation

QUESTION 90
Which of the following operates in the 2.4GHz range and has a MAXIMUM distance of 10 meters (33 feet)?

A. X-10
B. Bluetooth
C. 802.11a
D. 802.11b

Correct Answer: B
Section: (none)
Explanation

QUESTION 91
Which of the following does not affect security on a wireless access point?

A. Encryption
B. DHCP
C. Password
D. SSID

Correct Answer: B
Section: (none)
Explanation

QUESTION 92

Which of the following should be configured to provide priority to voice traffic?

A. Port mirroring
B. DMZ
C. QoS
D. Trunking

Correct Answer: C
Section: (none)
Explanation

QUESTION 93
Which of the following tools are BEST used to cut away the outside covering of a CAT5e cable?

A. Stripper
B. Punch down tool
C. Butt set
D. Snips

Correct Answer: A
Section: (none)
Explanation

QUESTION 94
Frames are found within which of the following layers of the OSI model?

A. Layer 1
B. Layer 2
C. Layer 3
D. Layer 5

Correct Answer: B
Section: (none)
Explanation

QUESTION 95
At which of the following OSI model layers is HTTPS encryption performed?

A. Layer 3
B. Layer 5
C. Layer 6
D. Layer 7

Correct Answer: C
Section: (none)
Explanation

QUESTION 96
A user reports that their laptop does not have network connectivity, but was working fine last week. The technician executes IPCONFIG to see what the IP address is but it comes up with a 169.254.254.1 address. This address is not part of the company's subnet. Which of the following MOST likely identifies this address type?

A. Multicast
B. DHCP
C. APIPA
D. Broadcast

Correct Answer: C
Section: (none)
Explanation

QUESTION 97
Which of the following security threats is mitigated by an antivirus scanner on the network?

A. FTP bounce
B. DDoS
C. Worms
D. Social engineering

Correct Answer: C
Section: (none)
Explanation

QUESTION 98
Administrators are performing a war drive around their company's complex. Which of the following are they attempting to detect?

A. Worms
B. Rogue access points
C. DDoS attacks
D. Bluesnarfing attacks

Correct Answer: B
Section: (none)
Explanation

QUESTION 99
Which of the following performs posture assessments for unknown devices that connect to the network?

A. PKI
B. EAP
C. NAC
D. AAA

Correct Answer: C
Section: (none)
Explanation

QUESTION 100
Which of the following is true of stateless inspection?

A. It is not able to determine which ports to block.
B. It is able to detect packets from established connections only.
C. It is able to determine the connection state of all packets going through the firewall.
D. It is not able to determine if a packet is related to an established connection.

Correct Answer: D
Section: (none)
Explanation

QUESTION 101
Which of the following WAN technologies has the GREATEST latency and is not recommended for VoIP?

A. ISDN
B. DSL
C. Satellite
D. Cable

Correct Answer: C
Section: (none)
Explanation

QUESTION 102
In order for two machines on different VLANs to communicate with one another, which of the following must be properly set?

A. DNS
B. Load balancing
C. Subnet mask
D. Default gateway

Correct Answer: D
Section: (none)
Explanation

QUESTION 103
A remote user cannot connect to the office via VPN. The user has established Internet connectivity. Which of the following is the MOST likely next step in troubleshooting?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 104
Which of the following LAN technologies is considered fast Ethernet and uses two pairs of cabling, one pair for sending and the other pair for receiving?

A. 100BaseT4
B. 100BaseTX
C. 100BaseX
D. 100BaseFX

Correct Answer: B
Section: (none)
Explanation

QUESTION 105
A technician needs to install additional access points for a new high speed connection being added in the new office space. Which of the following will MOST likely be installed to allow additional CAT5 cable connections?

A. Smart Jack
B. Demarc
C. 110 Block
D. 66 Block

Correct Answer: C
Section: (none)
Explanation

QUESTION 106
Which of the following security mitigation techniques is the MOST effective against zero-day attacks?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 107
Which of the following devices should an administrator connect to a protocol analyzer in order to collect all of the traffic on a LAN segment?

A. Hub
B. VLAN
C. Router
D. Server

Correct Answer: A
Section: (none)
Explanation

Exam F

QUESTION 1
Which of the following features enables a firewall to inspect a packet based on connection status?

A. Port forwarding
B. Stateful inspection
C. Signature identification
D. Stateless inspection

Correct Answer: B
Section: (none)
Explanation

QUESTION 2
Which of the following devices can be installed on individual computers throughout the network?

A. NIPS
B. Network-based firewall
C. VPN concentrator
D. Host-based firewall

Correct Answer: D
Section: (none)
Explanation

QUESTION 3
Which of the following software security devices can be implemented on individual servers in order to solely identify abnormal behavior?

A. HIPS
B. HIDS
C. Network-based firewall
D. DNS

Correct Answer: B
Section: (none)
Explanation

QUESTION 4
Which of the following security devices would MOST likely be used on a network to screen and prevent malicious traffic?

A. IDS
B. VPN
C. NIPS
D. HIDS

Correct Answer: C

QUESTION 5
After testing a new 100BaseTX cable, the technician determines that only pairs 4, 5, 7, and 8 are straight-thru wires. Which of the following MOST likely describes this cable type?

A. Crossover cable with open pairs
B. Crossover cable
C. Rollover cable
D. Straight-thru cable with open pairs

Correct Answer: B
Section: (none)
Explanation

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QUESTION 6
There are two networks sharing the same office space. One network already has an 802.11g access point. The second network acquires one as well. If known, which of the following would help keep the two networks from interfering with each other?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 7
Which of the following routing protocols uses AS-Path as one of the methods to build the routing table?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 8
A remote user cannot connect to the office via VPN. The user has established Internet connectivity. Which of the following is the MOST likely next step in troubleshooting?

A. Power cycle the VPN concentrator at the office.
B. Determine if the VPN service is running at the office.

C. Reinstall the VPN client at the remote computer.
D. Determine if the user has the correct VPN address and password.

Correct Answer: D
Section: (none)
Explanation

QUESTION 9
A technician receives a call on monday morning that several computers will not connect to the network. The technician determines that the computers left on over the weekend are functional and those that were turned off over the weekend are not functioning. Which of the following is the MOST likely source of the problem?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 10
According to the OSI model, which of the following layers is responsible for providing reliable communication?

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

Correct Answer: A
Section: (none)
Explanation

QUESTION 11
A user is trying to connect their new desktop to the network but is unable to get an IP address. The technician tests the cable and finds that there are too many open pairs. Which of the following wiring standards needs to be used in the replacement cable?

A. 568B
B. Crossover
C. 569-A
D. 607-A

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12
The ISP is working with a technician to troubleshoot PRI issues. Which of the following cables or adapters would the technician MOST likely use to help the ISP test their Smart jack?

A. Rollover
B. Loopback
C. RJ11
D. Crossover

Correct Answer: B
Section: (none)
Explanation

QUESTION 13
Which of the following WAN technologies uses a telephone cable?

A. POTS
B. FDDI
C. SONET
D. Cable modem

Correct Answer: A
Section: (none)
Explanation

QUESTION 14
Users are reporting problems connecting to servers in the remote company.com domain. The administrator suspects this to be a DNS problem. Which of the following commands would the administrator run to identify the DNS server of the remote company.com?

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A. dig company.com ns
B. ipconfig /all
C. ifconfig -a
D. dig company.com mx

Correct Answer: A
Section: (none)
Explanation

QUESTION 15
A technician wants to test the DNS server ns.company.com to ensure it is able to resolve the company web

address. Which of the following command sequences will test DNS functionality?

A. nslookup
   set type=mx
   www.company.com
B. nslookup
   Set type=ns
   @ns.company.com www
C. nslookup
   domain ns.company.com
   lookup www
D. nslookup
   server ns.company.com
   www.company.com

Correct Answer: D
Section: (none)
Explanation

QUESTION 16
Which of the following threats is MOST likely to result in a service disruption for all customers accessing www.company.com?

A. Port scan
B. DoS
C. Blue snarfing
D. War driving

Correct Answer: B
Section: (none)
Explanation

QUESTION 17
Which of the following solutions will detect and disable a rogue access point?

A. Port scan
B. Packet sniffer
C. IPS
D. IDS

Correct Answer: C
Section: (none)
Explanation

QUESTION 18
An administrator needs to update a router configuration for a router that does not support SSH.

Which of the following can be used to securely update the router configuration?

A. FTP

B. SNMPv2
C. TFTP
D. HTTPS

Correct Answer: D
Section: (none)
Explanation

QUESTION 19
Which of the following authenticates a web server to the remote client in PKI?

A. FQDN
B. DNS name
C. Public key
D. Private key

Correct Answer: C
Section: (none)
Explanation

QUESTION 20
Which of the following can be configured on a WAP to authenticate users and place them onto the right VLAN?

A. 802.1q
B. AAA
C. 802.1x
D. Trunking

Correct Answer: C
Section: (none)
Explanation

QUESTION 21
Which of the following is a correct IP ACL? (Select TWO).

A. PERMIT 192.268.20.1
B. DROP 00-12-34-56-78-9A
C. DENY 0:::0:::0:::3
D. DENY ANY ANY
E. PERMIT 192.168.1.100 80

Correct Answer: DE
Section: (none)
Explanation

QUESTION 22
Which of the following is most effective against threats when used with an updated server? (Select TWO).

A. Kerberos server
B. Stateful firewall

C. Content filter
D. IDS
E. VPN concentrator

Correct Answer: CD
Section: (none)
Explanation

QUESTION 23
Which of the following WAN types requires the use of a telephone line?

A. Wireless
B. Satellite
C. ATM
D. POTS

Correct Answer: D
Section: (none)
Explanation

QUESTION 24
Which of the following denotes the FINAL point of responsibility for a service provider?

A. 66 block
B. Patch panel
C. Wiring closet
D. Demarc

Correct Answer: D
Section: (none)
Explanation

QUESTION 25
Which of the following network devices commonly uses OSPF?

A. Firewall
B. Router
C. Repeater
D. Layer 2 switch

Correct Answer: B
Section: (none)
Explanation

QUESTION 26
Which of the following devices allows multiple internal IP addresses to access an external website with minimal impact to the network bandwidth?

A. Proxy

B. Load balancer
C. Router
D. Bandwidth shaper

Correct Answer: A
Section: (none)
Explanation

QUESTION 27
Which of the following technologies attempts to avoid loops at Layer 2 of the OSI model?

A. PoE
B. VLAN
C. Spanning tree
D. Port mirroring

Correct Answer: C
Section: (none)
Explanation

QUESTION 28
Which of the following technologies allows an administrator to submit traffic to an IDS for review?

A. Spanning tree
B. VLAN
C. PoE
D. Port mirroring

Correct Answer: D
Section: (none)
Explanation

QUESTION 29
An administrator is implementing a wireless network. Which of the following encryption technologies is the MOST secure method and will authenticate devices to the network?

A. SSH
B. WEP
C. VPN
D. WPA

Correct Answer: D
Section: (none)
Explanation

QUESTION 30
Which of the following is the MOST important factor to ensure wireless connectivity?

A. Installing WPA
B. Wireless encryption
C. Centralized device management
D. AP placement

Correct Answer: D
Section: (none)
Explanation

QUESTION 31
A crossover cable is MOST commonly associated with which of the following layers of the OSI model?

A. Session
B. Application
C. Network
D. Physical

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 32
Which of the following is the MOST efficient way to troubleshoot network problems?

A. Create an action plan.
B. Implement and test a solution.
C. Determine if anything has changed.
D. Identify a probable cause.

Correct Answer: C
Section: (none)
Explanation

QUESTION 33
Which of the following connectivity issues is likely to occur within a token ring network?

A. Crosstalk
B. Broadcast storm
C. Duplex mismatch
D. Collision

Correct Answer: D
Section: (none)
Explanation

QUESTION 34
An administrator is troubleshooting a problem where computers can talk to other computers within the same network segment, but cannot talk to computers on other network segments. Which of the following is the MOST

likely cause of the problem?

A. Wrong DNS
B. Crosstalk
C. Incorrect VLAN
D. Wrong gateway

Correct Answer: D
Section: (none)
Explanation

QUESTION 35
When each routing device has a consistent view of the network topology, the network is said to be:

A. fault tolerant.
B. converged.
C. autonomous.
D. vectored.

Correct Answer: B
Section: (none)
Explanation

QUESTION 36
Two autonomous networks who wish to exchange routing data should use which of the following protocols?

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

Correct Answer: B
Section: (none)
Explanation

QUESTION 37
When testing a CAT5 cable, the technician notices that pin 4 is open. However, the cable still works fine. Which of the following describes how this is possible?

A. The cable was tested for 100BaseTX.
B. The cable is a 1000BaseT cable.
C. The switch uses link aggregation.
D. The switch was setup to use MDIX.

Correct Answer: A
Section: (none)
Explanation

QUESTION 38

The plans for a new office require 300 network connections. Which of the following network sizes should be allocated to the new office?

A. /23
B. /24
C. /25
D. /30

Correct Answer: A
Section: (none)
Explanation

QUESTION 39
At which of the following layers does the TCP protocol operate?

A. Layer 1
B. Layer 4
C. Layer 6
D. Layer 7

Correct Answer: B
Section: (none)
Explanation

QUESTION 40
At which of the following layers does the ICMP protocol operate?

A. Layer 1
B. Layer 3
C. Layer 4
D. Layer 5

Correct Answer: B
Section: (none)
Explanation

QUESTION 41

At which of the following layers does the UDP protocol operate?

A. Layer 1
B. Layer 4
C. Layer 6
D. Layer 7

Correct Answer: B
Section: (none)
Explanation

QUESTION 42
At which of the following layers does the TFTP protocol operate?

A. Layer 1
B. Layer 4
C. Layer 5
D. Layer 7

Correct Answer: D
Section: (none)
Explanation

QUESTION 43
Which of the following layers is associated with the physical hardware address of a network node?

A. Layer 1
B. Layer 2
C. Layer 6
D. Layer 7

Correct Answer: B
Section: (none)
Explanation

QUESTION 44
Which of the following layers of the OSI model is the presentation layer?

A. Layer 1
B. Layer 5
C. Layer 6
D. Layer 7

Correct Answer: C
Section: (none)
Explanation

QUESTION 45
Which of the following wiring standards would MOST likely be used to interconnect two devices without the use of a hub or switch?

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

Correct Answer: C
Section: (none)
Explanation

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QUESTION 46
Which of the following interfaces is used to connect analog devices to the Internet?

A. POTS
B. ATM
C. VDSL
D. SDSL

Correct Answer: A
Section: (none)
Explanation

QUESTION 47
Which of the following technologies is used on the backbone of an ISDN?

A. VDSL
B. SDSL
C. OC3
D. ATM

Correct Answer: D
Section: (none)
Explanation

QUESTION 48
An administrator needs to test connectivity to a particular website without launching a browser session. Which of the following commands would MOST likely be used to test this connection?

A. ping
B. nslookup
C. traceroute
D. ipconfig

Correct Answer: A
Section: (none)
Explanation

QUESTION 49
A technician needs to troubleshoot connectivity between two devices located on the same network. Which of the following BEST describes the type of protocol being used?

A. IGP
B. EIGRP
C. EGP
D. BGP

Correct Answer: A
Section: (none)
Explanation

QUESTION 50
Which of the following LAN technologies is defined as fast Ethernet?

A. 10BaseT
B. 100BaseT
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C. 100BaseFX
D. 1000BaseT

Correct Answer: B
Section: (none)
Explanation

QUESTION 51
Which of the following LAN technologies is considered fast Ethernet and uses two pairs of cabling, one pair for sending and the other pair for receiving?

A. 100BaseT4
B. 100BaseTX
C. 100BaseX
D. 100BaseFX

Correct Answer: B
Section: (none)
Explanation

QUESTION 52
Which of the following LAN technologies has the SHORTEST length segmentation limit?

A. 10BaseF
B. 10Base5
C. 10BaseT
D. 10Base2

Correct Answer: C
Section: (none)
Explanation

QUESTION 53
Users are unable to access the company's intranet website. Which of the following attacks has the network MOST likely experienced?

A. Man-in-the-middle
B. Smurf
C. Trojan
D. DoS

Correct Answer: D
Section: (none)
Explanation

QUESTION 54
A small amount of spoofed packets are being sent across a network and a large amount of reply packets are being sent back to the network resource. Which of the following BEST describes this security threat?

A. Worm
B. Smurf
C. Logic Bomb
D. Man-in-the-middle

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 55
Which of the following defines access for a network?

A. ACL
B. RDP
C. RAS
D. ARP

Correct Answer: A
Section: (none)
Explanation

QUESTION 56
Which of the following address formats uses 32-bit addressing?

A. IPv4
B. MAC address
C. IPv6
D. Host address

Correct Answer: A
Section: (none)
Explanation

QUESTION 57
An administrator is having a hard time adding a new switch to the network. After verifying that all the ports are configured correctly on each switch, which of the following should the administrator verify NEXT?

A. Straight-through cable is used to connect both switches
B. Loopback plug is connected
C. Crossover cable is used to connect both switches
D. Cable is a rollover cable

Correct Answer: C
Section: (none)

Explanation

QUESTION 58
An administrator who is unsure where to terminate a fiber cable would refer to a:

A. network policy.
B. wiring schematic.
C. logical network diagram.
D. security policy.

Correct Answer: B
Section: (none)
Explanation

QUESTION 59
Which of the following configuration management documentation types would an administrator use to know how and when to properly install new network devices on the LAN?

A. Baseline configuration
B. Logical network diagram
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C. Network policy
D. Wiring schematic

Correct Answer: C
Section: (none)
Explanation

QUESTION 60
Which of the following protocols would an administrator use to backup files from a router to a local server?

A. NTP
B. SMTP
C. TFTP
D. DHCP

Correct Answer: C
Section: (none)
Explanation

QUESTION 61
A network technician, working with a large business of 500 employees, decides to configure a server to handle IP addressing. Which of the following would BEST allow for this setup?

A. Address routing protocol
B. Port mirroring
C. Static addresses
D. DHCP addresses

Correct Answer: D

QUESTION 62
A user is unable to access the company website on a laptop. A network technician verifies that the user can access other Internet pages. According to network troubleshooting methodology, which of the following steps should be taken NEXT?

A. Remotely connect to the user's laptop and review the network configuration settings.
B. Ping the web server from inside the network to ensure it is still up and running.
C. Check to make sure the company's website is accessible from the Internet.
D. Ensure the Ethernet cable is securely plugged into the user's laptop.

Correct Answer: C
Section: (none)
Explanation

QUESTION 63
Which of the following is a reason to use dynamic DNS?

A. The host IP address is not listed in the firewall.
B. The host IP address is assigned by DHCP.
C. Static routes cannot be used on the host network.
D. A third-party certificate is being used.

Correct Answer: B
Section: (none)
Explanation

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QUESTION 64
A user can no longer access the accounting file share, but others are still able to access the share. Which of the following would be the FIRST step in troubleshooting the issue?

A. Notify senior management of the issue.
B. Develop a probable cause theory.
C. Ask the user if anything has changed on the system.
D. Escalate the issue to the vendor.

Correct Answer: C
Section: (none)
Explanation

QUESTION 65
Which of the following virtual components maintains a MAC-to-port forwarding table?

A. Virtual PBX
B. Virtual desktop
C. Virtual switch

D. Virtual server

Correct Answer: C
Section: (none)
Explanation

QUESTION 66
Which of the following uses a ring topology?

A. DSL
B. Ethernet
C. DOCSIS
D. SONET

Correct Answer: D
Section: (none)
Explanation

QUESTION 67
A link light on a switch is an example of which of the following Ethernet properties?

A. Collision detection
B. Multiple access points
C. Carrier sense
D. Collision avoidance

Correct Answer: C
Section: (none)
Explanation

QUESTION 68
Determining when to retransmit frames is an example of which of the following Ethernet properties?

A. Carrier sense
B. Collision detection
C. Multiple access points
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D. Collision avoidance

Correct Answer: B
Section: (none)
Explanation

QUESTION 69
Which of the following is the MOST economical way to implement a gigabit connection over a distance of 150-250 meters (492-820 feet)?

A. 1000BaseX
B. 100BaseTX
C. 1000BaseT

D. 10GBaseER

Correct Answer: A
Section: (none)
Explanation

QUESTION 70
A user reports being occasionally disconnected from the server. Which of the following tools could the technician use to determine if it is the client or the server that is dropping the connection?

A. Packet sniffer
B. Multimeter
C. Load balancer
D. Throughput tester

Correct Answer: A
Section: (none)
Explanation

QUESTION 71
A software vender wants to distribute free updates for clients via the web. Which of the following protocols would be the MOST efficient to distribute the updates?

A. DNS
B. SSH
C. TLS
D. FTP

Correct Answer: D
Section: (none)
Explanation

QUESTION 72
Which of the following protocols is responsible for the delivery of email from server to server?

A. POP3
B. SMTP
C. SNMP
D. IMAP

Correct Answer: B
Section: (none)
Explanation

QUESTION 73
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Which of the following protocols requests membership to a multicast group?

A. IGMP

B. SNMP
C. SMTP
D. ICMP

Correct Answer: A
Section: (none)
Explanation

QUESTION 74
How many bits are in an IPv6 address?

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

Correct Answer: C
Section: (none)
Explanation

QUESTION 75
Which of the following is used in voice over IP communications?

A. SNTP
B. SCP
C. SMTP
D. SIP

Correct Answer: D
Section: (none)
Explanation

QUESTION 76
Which of the following would be used to connect two IDFs in the same building with the LAN, while minimizing crosstalk?

A. RG-6
B. STP
C. CAT3
D. UTP

Correct Answer: B
Section: (none)
Explanation

QUESTION 77
A technician needs to install additional access points for a new high speed connection being added in the new office space. Which of the following will MOST likely be installed to allow additional CAT5 cable connections?

A. Smart Jack
B. Demarc

C. 110 Block
D. 66 Block

Correct Answer: C
Section: (none)
Explanation

QUESTION 78
A technician is installing new LAN lines into a company's new office space. Which of the following is the termination point for each new run?

A. Smart Jack
B. 66 Block
C. Patch Panel
D. Demarc

Correct Answer: C
Section: (none)
Explanation

QUESTION 79
An administrator believes that the network has been attacked and there is no known definition or prevention method to help avoid this attack. Which of the following BEST describes this scenario?

A. Zero day attack
B. DDoS
C. DoS
D. SQL injection

Correct Answer: A
Section: (none)
Explanation

QUESTION 80
Which of the following is used to serve as an emergency backup line to troubleshoot a broadband connection on many routers?

A. DSL
B. POTS
C. VDSL
D. Smart jack

Correct Answer: B
Section: (none)
Explanation

QUESTION 81
Which of the following monitors a server to see which protocols might be in use?

A. Ping sweep
B. Intrusion detection software
C. Port scanner
D. Wireless packet sniffer

Correct Answer: C
Section: (none)
Explanation

QUESTION 82
Which of the following analyzes the entire subnet to identify all hosts that are active?

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A. Ping sweep
B. Packet sniffer
C. Traceroute
D. Port scanner

Correct Answer: A
Section: (none)
Explanation

QUESTION 83
A user reports an inability to access a certain website, but is able to access all other sites. Which of the following tools would the administrator MOST likely use to see where the problem is occurring?

A. hostname
B. ipconfig
C. netstat
D. traceroute

Correct Answer: D
Section: (none)
Explanation

QUESTION 84
Which of the following would be used to lock all of the primary communication equipment of a building, including its demarcation point?

A. MTR
B. MDF
C. Smart jack
D. IDF

Correct Answer: B
Section: (none)
Explanation

QUESTION 85

Which of the following would MOST likely be used to punch down LAN cables before connecting them to the main switch?

A. IDF
B. 66 block
C. MDF
D. 110 block

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 86
Which of the following security mitigation techniques is the MOST effective against zero-day attacks?

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

Correct Answer: D
Section: (none)
Explanation

QUESTION 87
New service from the telephone company is delivered over fiber, but the technician does not have a fiber module for the router. Which of the following would remedy this issue?

A. OTDR
B. Media converter
C. CSU/DSU
D. Fiber repeater

Correct Answer: B
Section: (none)
Explanation

QUESTION 88
Which of the following remote access methods allows an administrator to take control of a user's machine and block the user from seeing the active session?

A. PPP
B. PPPoE
C. RDP
D. RAS

Correct Answer: C
Section: (none)
Explanation

QUESTION 89
An administrator wants to prevent users from plugging in their personal laptops and accessing the Internet without a member of the IT staff configuring the machine first. Which of the following would MOST likely be installed?

A. Multilayer switch
B. CSU
C. Proxy server
D. IDS

Correct Answer: C
Section: (none)
Explanation

QUESTION 90
When ordering switches for a new building, which of the following is the BEST way for the technician to determine the number of switches to put in each network closet?

A. Review the architectural plans to see how many drops go to each closet.
B. Count the number of rooms near each closet and standardize eight drops per room.
C. Wireless is the new standard and no network switches will be needed in the building.
D. Count the number of phone ports and configure two network ports for each phone port.

Correct Answer: A
Section: (none)
Explanation

QUESTION 91
Which of the following protocols uses port 20, by default?

A. DNS
B. HTTPS
C. SSH
D. FTP

Correct Answer: D
Section: (none)
Explanation

QUESTION 92
Which of the following should be changed to secure access to a WAPs configuration management interface?

A. SSID
B. WPA2
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C. DHCP
D. Password

Correct Answer: D
Section: (none)
Explanation

QUESTION 93
A technician is at a client's site to figure out an intermittent network problem. The technician has implemented the solution. Which of the following is the NEXT step in the troubleshooting methodology?

A. Document the solution and the entire process.
B. Create an action plan and identify potential effects.
C. Determine if escalation is necessary.
D. Determine if anything has changed.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
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QUESTION 94
802.11g wireless signals operating at 2.4GHz has a maximum line of sight range of which of the following?

A. 460 feet (140 meters)
B. 540 feet (165 meters)
C. 560 feet (171 meters)
D. 840 feet (256 meters)

Correct Answer: A
Section: (none)
Explanation

QUESTION 95
Which of the following commands provides similar information about the current configuration of active local Ethernet adapters? (Select TWO).

A. traceroute
B. ipconfig
C. ifconfig
D. route
E. hostname

Correct Answer: BC
Section: (none)
Explanation

QUESTION 96
Which of the following allows TCP/IP packets to be analyzed for possible threats?

A. Proxy server
B. IDS
C. CSU
D. DNS server

Correct Answer: B
Section: (none)
Explanation

QUESTION 97
An administrator wants to test the network MTU. Which of the following commands allows different size packets to be sent?

A. netstat
B. traceroute
C. nbtstat
D. ping

Correct Answer: D
Section: (none)
Explanation

QUESTION 98
Which of the following methods can move files in clear text and can be easily intercepted?

A. RSH
B. SNMP
C. FTP
D. TELNET

Correct Answer: C
Section: (none)
Explanation

QUESTION 99
Which of the following routing protocols are unable to advertise CIDR networks? (Select TWO).

A. OSPF
B. RIP
C. EIGRP
D. IGRP
E. RIPv2

Correct Answer: BD
Section: (none)
Explanation

QUESTION 100
Which of the following devices should an administrator connect to a protocol analyzer in order to collect all of the traffic on a LAN segment?

A. Hub
B. VLAN
C. Router
D. Server

Correct Answer: A
Section: (none)
Explanation

QUESTION 101
Which of the following network topologies BEST describes a VPN? (Select TWO).

A. Point to Point
B. Point to Multipoint
C. VLAN
D. Ring
E. Bus

Correct Answer: AB
Section: (none)
Explanation

QUESTION 102
After a power outage, the helpdesk receives multiple calls. Which of the following steps should a technician do NEXT?

A. Determine if anything else has changed.
B. Identify the affected areas.
C. Escalate part of the solution to the appropriate section.
D. Create an action plan.

Correct Answer: B
Section: (none)

QUESTION 103
Which of the following operates in the 2.4GHz range and has a MAXIMUM distance of 10 meters (33 feet)?

A. X-10
B. Bluetooth
C. 802.11a
D. 802.11b

Correct Answer: B
Section: (none)
Explanation

QUESTION 104
Office A is located 500 miles (805 kilometers) away from Office B, yet they are on the same private network. Which of the following is MOST likely being used to accomplish this scenario?

A. Trunking
B. LAN
C. VPN
D. Peer to peer

Correct Answer: C
Section: (none)
Explanation

QUESTION 105
Link aggregation is also known as port:

A. distribution.
B. mirroring.
C. spanning.
D. trunking.

Correct Answer: D
Section: (none)
Explanation

QUESTION 106
If the goal is to minimize the amount of time it takes for other routers in the network to learn about a routing change, the network administrator should choose a routing protocol that has the shortest:

A. path.
B. multipath.
C. convergence.
D. link state.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference: