

CompTIA N10-007



CompTIA Network+ Certification Exam

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QUESTION NO: 1

A UTM is deployed on the external edge of the main corporate office. The office connects to the WAN port of the edge router. The edge router at the main office connects to the remote offices using GRE IPsec tunnels. A network administrator notices that a worm that was not detected by the UTM has spread from the remote sites into the corporate network. The UTM currently has traffic rules applied that should block the port used by the worm. Which of the following steps would MOST likely correct this issue?

- A.**
Move the UTM onto the LAN side of the network
- B.**
Enable TLS inspection on the UTM
- C.**
Enable stateful inspection on the UTM
- D.**
Configure the UTM to deny encrypted files from being transferred

Answer: C

Explanation:

QUESTION NO: 2

A technician has racked a new access switch and has run multimode fiber to a new location. After installing an extended-range 10Gb SFP in the core switch, the technician installed a 10Gb SFP in the access switch and connected the port to the new extension with a fiber jumper. However, the link does not display, and the technician cannot see light emitting from the core switch. Which of the following solutions is MOST likely to resolve the problem?

- A.**
Swap the fiber pairs in one of the SFPs
- B.**
Replace the jumpers with single-mode fiber
- C.**
Set the correct MTU on the new interface
- D.**
Install an optic that matches the fiber type

Answer: B

Explanation:

QUESTION NO: 3

A network technician has implemented ACLs to limit access to cloud-based file storage. Which of the following security mechanisms has the technician enforced?

- A.**
DLP
- B.**
IDS
- C.**
WAF
- D.**
WPA
- E.**
TPM

Answer: C

Explanation:

QUESTION NO: 4

A network technician receives a call from a user in the accounting department stating that Internet connectivity has been lost after receiving a new workstation. No other users in accounting are reporting similar issues. The network technician is able to ping the machine from the accounting department's router, but is not able to ping the machine from the IT network. Which of the following is MOST likely the cause?

- A.**
Incorrect default gateway
- B.**
Duplicate IP address

- C.**
Misconfigured OSPF
- D.**
Improper VLAN assignment

Answer: A

Explanation:

QUESTION NO: 5

A firewall administrator is implementing a rule that directs HTTP traffic to an internal server listening on a non-standard socket. Which of the following types of rules is the administrator implementing?

- A.**
NAT
- B.**
PAT
- C.**
STP
- D.**
SNAT
- E.**
ARP

Answer: B

Explanation:

QUESTION NO: 6

A technician is installing a new wireless badging system on a hospital network. The requirements of the badging system are for it to have its own SSID and low power levels. The badging system has to cover 99.9% of the hospital. Which of the following is the BEST action to take to meet the system requirements?

- A.**
Install additional WAPs
- B.**
Install external antennas
- C.**
Move the WAPs closer to the more populated area
- D.**
Change the antenna types

Answer: A

Explanation:

QUESTION NO: 7

A technician attempts to replace a switch with a new one of similar model from the same vendor. When the technician moves the fiber and SFP plug, the switch does not completely boot up. Considering that the config files are the same, which of the following is the MOST likely cause of the failure?

- A.**
Damaged fiber
- B.**
Corrupted operating system
- C.**
VLAN mismatch
- D.**
Bad port

Answer: B

Explanation:

QUESTION NO: 8

A company has hundreds of nodes on a single subnet and has decided to implement VLANs.

Which of the following BEST describes the benefit of this approach?

A.

It segments broadcast domains in the network infrastructure.

B.

It provides a faster port to all servers.

C.

It provides multiple collision domains on one switchport.

D.

It provides multiple broadcast domains within a single collision domain.

Answer: A

Explanation:

QUESTION NO: 9

A company has completed construction of a new datacenter, and the IT staff is now planning to relocate all server and network equipment from the old site to the new site. Which of the following should the IT staff reference to determine the location of the equipment being moved?

A.

Rack diagrams

B.

Network topology

C.

Standard operating procedures

D.

Wiring documentation

Answer: A

Explanation:

QUESTION NO: 10

Which of the following would allow a device to maintain the same IP address lease based on the physical address of the network card?

- A.**
MAC address reservation
- B.**
Static IP address
- C.**
IP address exclusion
- D.**
Custom DNS server entry

Answer: A

Explanation:

QUESTION NO: 11

A technician wants to prevent an unauthorized host from connecting to the network via Ethernet. Which of the following is a Layer 2 access control the technician should implement?

- A.**
Access control lists
- B.**
Captive portal
- C.**
WPA2
- D.**
Port security

Answer: D

Explanation:

QUESTION NO: 12

A network engineer is configuring wireless access for guests at an organization. Access to other areas in the organization should not be accessible to guests. Which of the following represents the MOST secure method to configure guest access to the wireless network?

A.

Guests should log into a separate wireless network using a captive portal

B.

Guests should log into the current wireless network using credentials obtained upon entering the facility

C.

The existing wireless network should be configured to allow guest access

D.

An additional wireless network should be configured to allow guest access

Answer: A

Explanation:

QUESTION NO: 13

The server team has just installed an application across three different servers. They are asking that all requests to the application are spread evenly across the three servers. Which of the following should the network team implement to fulfil the request?

A.

Proxy server

B.

UTM appliance

C.

Content filter

D.

Load balancer

Answer: D

Explanation:

QUESTION NO: 14

A network technician is deploying mobile phones for a company's sales staff. Salespeople frequently travel nationally and internationally to meet with clients, and often have to roam or switch cellular providers. Which of the following standards is the BEST option to fit the requirements?

- A.**
GSM
- B.**
TDM
- C.**
CDMA
- D.**
PSTN
- E.**
MIMO

Answer: A

Explanation:

QUESTION NO: 15

A network administrator has been given a network of 172.16.85.0/21 and wants to know the usable range of IP addresses on that subnet. Which of the following indicates the correct IP address range?

- A.**
172.16.80.0-172.16.85.254
- B.**
172.16.80.0-172.16.88.255
- C.**
172.16.80.1-172.16.87.254
- D.**
172.16.80.1-172.16.85.255

Answer: C

Explanation:

QUESTION NO: 16

A network technician is troubleshooting wireless network issues in a crowded office complex and suspects there is interference from nearby wireless networks. Which of the following should the technician perform to discover possible interference?

- A.**
Site survey
- B.**
Vulnerability scanning
- C.**
Wardriving
- D.**
Checking logical diagram
- E.**
Bandwidth test

Answer: A

Explanation:

QUESTION NO: 17

A network technician is troubleshooting an issue and has established a theory of probable cause. Which of the following steps should the network technician take NEXT?

- A.**
Test the possible solution
- B.**
Question the users
- C.**
Determine what has changed

D.

Document the theory

Answer: A

Explanation:

QUESTION NO: 18

A network technician has discovered a rogue access point under an empty cubicle desk. Which of the following should the technician perform to ensure another cannot be placed on the network?

A.

Disable unused ports on switches

B.

Enable DHCP guard to detect rogue servers

C.

Configure WPA2 on all access points

D.

Use TACACS+ authentication

Answer: B

Explanation:

QUESTION NO: 19

Which of the following provides the ability to deploy consistent access point configurations from a central location?

A.

Wireless controller

B.

AAA server

C.

WiFi-protected setup

D.
Proxy server

E.
VPN concentrator

Answer: A

Explanation:

QUESTION NO: 20

A network technician is configuring a wireless network at a branch office. Users at this office work with large files and must be able to access their files on the server quickly. Which of the following 802.11 standards provides the MOST bandwidth?

A.
a

B.
ac

C.
g

D.
n

Answer: B

Explanation:

QUESTION NO: 21

A network administrator configures a router with the following IP address information:

Gigabit Ethernet 1 Interface: 10.10.0.1/24

Serial 0 Interface: 10.10.0.253/30

Clients are connected to a switch on the gigabit Ethernet interface; the ISP is connected to the Serial 0 interface. When the router configuration is complete and client devices are reconfigured,

all clients report that they are unable to connect to the Internet. Which of the following is the MOST likely reason?

A.

The router was configured with an incorrect IP address

B.

The router was configured with an incorrect default gateway

C.

The router was configured with an incorrect subnet mask

D.

The router was configured with an incorrect loopback address

Answer: C

Explanation:

QUESTION NO: 22

A penetration tester has been tasked with reconnaissance to determine which ports are open on the network. Which of the following tasks should be done FIRST? (Choose two.)

A.

Network scan

B.

Banner grab

C.

Tracert

D.

DHCP server check

E.

Brute-force attack

Answer: A,C

Explanation:

QUESTION NO: 23

Users are reporting Internet connectivity issues. The network administrator wants to determine if the issues are internal to the company network or if there is an issue with the ISP. Which of the following tools should be used to BEST determine where the outage is occurring?

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

Answer: A

Explanation:

QUESTION NO: 24

Which of the following security mechanisms dynamically assigns a Layer 2 address and restricts traffic only to that Layer 2 address?

- A.**
Sticky MAC
- B.**
802.1x
- C.**
ACL
- D.**
NAC

Answer: A

Explanation:

QUESTION NO: 25

Which of the following is a vulnerable system designed to detect and log unauthorized access?

- A.**
SIEM
- B.**
Honeypot
- C.**
DMZ
- D.**
Proxy server

Answer: B

Explanation:

QUESTION NO: 26

According to the OSI model, at which of the following layers is data encapsulated into a packet?

- A.**
Layer 2
- B.**
Layer 3
- C.**
Layer 4
- D.**
Layer 5
- E.**
Layer 6

Answer: B

Explanation:

QUESTION NO: 27

Which of the following WAN technologies is MOST preferred when developing a VoIP system with 23 concurrent channels?

- A.**
DSL
- B.**
POTS
- C.**
T1
- D.**
DOCSIS

Answer: C

Explanation:

QUESTION NO: 28

A junior network technician is setting up a new email server on the company network. Which of the following default ports should the technician ensure is open on the firewall so the new email server can relay email?

- A.**
23
- B.**
25
- C.**
110
- D.**
143

Answer: B

Explanation:

QUESTION NO: 29

Which of the following policies would Joe, a user, have to agree to when he brings in his personal tablet to connect to the company's guest wireless Internet?

- A.**
NDA
- B.**
IRP
- C.**
BYOD
- D.**
SLA

Answer: C

Explanation:

QUESTION NO: 30

In a service provider network, a company has an existing IP address scheme. Company A's network currently uses the following scheme:

Subnet 1: 192.168.1.0/26
Subnet 2: 192.168.1.65/26

Company b uses the following scheme:

Subnet 1: 192.168.1.50/28

The network administrator cannot force the customer to update its IP scheme. Considering this, which of the following is the BEST way for the company to connect these networks?

- A.**
DMZ
- B.**
PAT
- C.**
NAT
- D.**
VLAN

Answer: C

Explanation:

QUESTION NO: 31

A network engineer is designing a new network for a remote site. The remote site consists of ten desktop computers, ten VoIP phones, and two network printers. In addition, two of the desktop computers at the remote site will be used by managers who should be on a separate network from the other eight computers. Which of the following represents the BEST configuration for the remote site?

- A.**
One router connected to one 24-port switch configured with three VLANs: one for the manager's computers and printer, one for the other computers and printer, and one for the VoIP phones
- B.**
Two routers with each router connected to a 12-port switch, with a firewall connected to the switch connected to the manager's desktop computers, VoIP phones, and printer
- C.**
One router connected to one 12-port switch configured for the manager's computers, phones, and printer, and one 12-port switch configured for the other computers, VoIP phones, and printer
- D.**
One router connected to one 24-port switch configured with two VLANs: one for the manager's computers, VoIP phones, and printer, and one for the other computers, VoIP phones, and printer

Answer: A

Explanation:

QUESTION NO: 32

A network technician is troubleshooting an end-user connectivity problem. The network technician goes to the appropriate IDF but is unable to identify the appropriate cable due to poor labeling. Which of the following should the network technician use to help identify the appropriate cable?

- A.**
Tone generator
- B.**
Multimeter
- C.**
OTDR
- D.**
Loopback adapter

Answer: A

Explanation:

QUESTION NO: 33

A network technician notices the site-to-site VPN and Internet connection have not come back up at a branch office after a recent power outage. Which of the following is an out-of-band method the technician would MOST likely utilize to check the branch office's router status?

- A.**
Use a modem to console into the router
- B.**
Walk a user through troubleshooting the connection
- C.**
Travel to the branch office
- D.**
Hire a contractor to go on-site

Answer: A

Explanation:

QUESTION NO: 34

A network technician is considering opening ports on the firewall for an upcoming VoIP PBX implementation. Which of the following protocols is the technician MOST likely to consider? (Choose three.)

- A.**
SIP
- B.**
NTP
- C.**
H.323
- D.**
SMB
- E.**
ICMP
- F.**
RTP
- G.**
IPSec
- H.**
RDP

Answer: A,C,F

Explanation:

QUESTION NO: 35

A device operating at Layer 3 of the OSI model uses which of the following protocols to determine the path to a different network?

- A.**
STP

- B.**
RTP
- C.**
RIP
- D.**
NTP
- E.**
SIP

Answer: C

Explanation:

QUESTION NO: 36

A network administrator is setting up a web-based application that needs to be continually accessible to the end users. Which of the following concepts would BEST ensure this requirement?

- A.**
High availability
- B.**
Snapshots
- C.**
NIC teaming
- D.**
Cold site

Answer: A

Explanation:

QUESTION NO: 37

Which of the following devices should a network administrator configure on the outermost part of the network?

- A.**
Media converter
- B.**
Switch
- C.**
Modem
- D.**
Firewall

Answer: D

Explanation:

QUESTION NO: 38

A company finds that many desktops are being reported as missing or lost. Which of the following would BEST assist in recovering these devices?

- A.**
Asset tracking tags
- B.**
Motion detectors
- C.**
Security guards
- D.**
Computer locks

Answer: D

Explanation:

QUESTION NO: 39

A technician is connecting a router directly to a PC using the G1/0/1 interface. Without the use of auto-sensing ports, which of the following cables should be used?

- A.**
Straight-through
- B.**
Console
- C.**
Rollover
- D.**
Crossover

Answer: D

Explanation:

QUESTION NO: 40

A technician is diagnosing an issue with a new T1 connection. The router is configured, the cable is connected, but the T1 is down. To verify the configuration of the router, which of the following tools should the technician use?

- A.**
Loopback adapter
- B.**
Cable tester
- C.**
Tone generator
- D.**
Multimeter

Answer: A

Explanation:

QUESTION NO: 41

A network technician receives a call from a user who is experiencing network connectivity issues. The network technician questions the user and learns the user brought in a personal wired router

to use multiple computers and connect to the network. Which of the following has the user MOST likely introduced to the network?

- A.**
Rogue DHCP server
- B.**
Evil twin
- C.**
VLAN mismatch
- D.**
Honeypot

Answer: A

Explanation:

QUESTION NO: 42

A technician is setting up a direct connection between two older PCs so they can communicate but not be on the corporate network. The technician does not have access to a spare switch but does have spare Cat 6 cables, RJ-45 plugs, and a crimping tool. The technician cuts off one end of the cable. Which of the following should the technician do to make a crossover cable before crimping the new plug?

- A.**
Reverse the wires leading to pins 1 and 2
- B.**
Reverse the wires leading to pins 1 and 3
- C.**
Reverse the wires leading to pins 2 and 3
- D.**
Reverse the wires leading to pins 2 and 4

Answer: D

Explanation:

QUESTION NO: 43

Which of the following is the number of broadcast domain that are created when using an unmanaged 12-port switch?

A.

0

B.

1

C.

2

D.

6

E.

12

Answer: B

Explanation:

QUESTION NO: 44

A network engineer wants to segment the network into multiple broadcast domains. Which of the following devices would allow for communication between the segments?

A.

Layer 2 switch

B.

Layer 3 switch

C.

Bridge

D.

Load balancer

Answer: B

Explanation:

QUESTION NO: 45

The Chief Information Officer (CIO) has noticed the corporate wireless signal is available in the parking lot. Management requests that the wireless network be changed so it is no longer accessible in public areas, without affecting the availability inside the building. Which of the following should be changed on the network?

- A.**
Power levels
- B.**
Overcapacity
- C.**
Distance limitations
- D.**
Channel overlap

Answer: A

Explanation:

QUESTION NO: 46

A network technician is assisting the security team with some traffic captures. The security team wants to capture all traffic on a single subnet between the router and the core switch. To do so, the team must ensure there is only a single collision and broadcast domain between the router and the switch from which they will collect traffic. Which of the following should the technician install to BEST meet the goal?

- A.**
Bridge
- B.**
Crossover cable
- C.**
Hub
- D.**
Media converter

Answer: C

Explanation:

QUESTION NO: 47

Based on networks 10.8.16.0/22 and 10.8.31.0/21, which of the following is the BEST summarized CIDR notation?

A.
10.8.0.0/16

B.
10.8.0.0/19

C.
10.8.0.0/20

D.
10.0.0.0/24

Answer: A

Explanation:

QUESTION NO: 48

A technician discovers that multiple switches require a major update. Which of the following policies should be followed?

A.
Change management policy

B.
Remote access policy

C.
Acceptable use policy

D.
Memorandum of understanding

Answer: A

Explanation:

QUESTION NO: 49

A technician is troubleshooting a point-to-point fiber-optic connection. The technician is at a remote site and has no connectivity to the main site. The technician confirms the switch and the send-and-receive light levels are within acceptable range. Both fiber SFPs are confirmed as working. Which of the following should the technician use to reveal the location of the fault?

- A.**
OTDR
- B.**
Light meter
- C.**
Tone generator
- D.**
CSU/DSU

Answer: A

Explanation:

QUESTION NO: 50

A Chief Information Officer (CIO) wants to move some IT services to a cloud service offering. However, the network administrator still wants to be able to control some parts of the cloud service's networking components. Which of the following should be leveraged to complete this task?

- A.**
IaaS
- B.**
PaaS
- C.**
SaaS

D.
DaaS

Answer: B

Explanation:

QUESTION NO: 51

Client PCs are unable to receive addressing information from a newly configured interface on a router. Which of the following should be added to allow the clients to connect?

A.
DHCP lease time

B.
IP helper

C.
TTL

D.
DNS record type

Answer: B

Explanation:

QUESTION NO: 52

When enabling jumbo frames on a network device, which of the following parameters is being adjusted?

A.
Speed

B.
Duplex

C.
MTU

D.
TTL

Answer: C

Explanation:

QUESTION NO: 53

A technician logs onto a system using Telnet because SSH is unavailable. SSH is enabled on the target device, and access is allowed from all subnets. The technician discovers a critical step was missed. Which of the following would allow SSH to function properly?

- A.**
Perform file hashing
- B.**
Generate new keys
- C.**
Update firmware
- D.**
Change default credentials

Answer: B

Explanation:

QUESTION NO: 54

A network administrator wants to ensure sensitive data is not exfiltrated from the system electronically. Which of the following should be implemented?

- A.**
DLP
- B.**
AUP
- C.**

NDA

D.
SLA

Answer: A

Explanation:

QUESTION NO: 55

An office network consists of one two-port router connected to a 12-port switch. A four-port hub is also connected to the switch. On this particular network, which of the following is the number of collision domain that exist?

A.
3

B.
12

C.
13

D.
14

E.
15

Answer: D

Explanation:

QUESTION NO: 56

A network technician wants to remotely and securely access the desktop of a Linux workstation. The desktop is running remote control software without encryption. Which of the following should the technician use to secure the connection?

A.

SSH in tunnel mode

B.

RDP set to console connection

C.

EAP-PEAP

D.

SFTP

Answer: A

Explanation:

QUESTION NO: 57

Which of the following should current network performance be compared against to determine network anomalies?

A.

Baseline

B.

Traffic analysis

C.

Packet capture

D.

Logs

Answer: A

Explanation:

QUESTION NO: 58

A network administrator configures an email server to use secure protocols. When the upgrade is completed, which of the following ports on the firewall should be configured to allow for connectivity? (Choose three.)

- A.**
TCP 25
- B.**
TCP 110
- C.**
TCP 143
- D.**
TCP 389
- E.**
TCP 587
- F.**
TCP 993
- G.**
TCP 995

Answer: E,F,G

Explanation:

QUESTION NO: 59

After a server outage, a technician discovers that a physically damaged fiber cable appears to be the problem. After replacing the cable, the server will still not connect to the network. Upon inspecting the cable at the server end, the technician discovers light can be seen through one of the two fiber strands. Which of the following should the technician do FIRST to reconnect the server to the network?

- A.**
Reverse the fiber strands of the cable and reconnect them to the server
- B.**
Use a TDR to test both strands of a new replacement cable prior to connecting it to the server
- C.**
Replace the server's single-mode fiber cable with multimode fiber
- D.**
Move the fiber cable to different port on the switch where both strands function

Answer: A

Explanation:

QUESTION NO: 60

The backups server connects to a NAS device using block-level storage over Ethernet. The performance is very slow, however, and the network technician suspects the performance issues are network related. Which of the following should the technician do to improve performance?

- A.**
Utilize UDP to eliminate packet overhead
- B.**
Turn off MDIX settings on the NAS and server switchports
- C.**
Enable jumbo frames on the NAS and server
- D.**
Encapsulate the storage traffic in a GRE tunnel

Answer: C

Explanation:

QUESTION NO: 61

A technician is trying to determine the IP address of a customer's router. The customer has an IP address of 192.168.1.55/24. Which of the following is the address of the customer's router?

- A.**
192.168.0.55
- B.**
192.168.1.0
- C.**
192.168.1.1
- D.**
192.168.5.5
- E.**

255.255.255.0

Answer: C

Explanation:

QUESTION NO: 62

A network technician is able to connect the switches between two offices, but the offices cannot communicate with each other, as each office uses a different IP addressing scheme. Which of the following devices needs to be installed between the switches to allow communication?

- A.**
Bridge
- B.**
Access point
- C.**
Router
- D.**
Range extender

Answer: C

Explanation:

QUESTION NO: 63

A network technician is working on a proposal for email migration from an on-premises email system to a vendor-hosted email in the cloud. The technician needs to explain to management what type of cloud model will be utilized with the cloud-hosted email. Which of the following cloud models should the technician identify in the proposal?

- A.**
IaaS
- B.**
PaaS

C.
SaaS

D.
MaaS

Answer: C

Explanation:

QUESTION NO: 64

Which of the following is the correct port number for NTP?

A.
25

B.
69

C.
123

D.
161

Answer: C

Explanation:

QUESTION NO: 65

A network technician is connecting two switches together. Which of the following protocols should the technician use to increase speed and fault tolerance?

A.
SIP

B.
BGP

C.

LACP

D.

LLDP

Answer: C

Explanation:

QUESTION NO: 66

A company has a web-based application that is used by many different departments. The company has experienced some overload of resources on the database server. The network administrator implements a network device in between the servers and the database. Which of the following BEST describes the purpose of this device?

A.

Content filtering and network analysis

B.

Load balancing and providing high availability

C.

Port sniffing and protocol analysis

D.

Clustering and NIC teaming

Answer: B

Explanation:

QUESTION NO: 67

A technician is replacing a switch at a branch office and discovers the existing backbone cable does not fit in the new switch. The fiber patch panel has circular connections. The new switch has a transceiver that accepts a smaller square adapter of two strands. Which of the following patch cables would the technician need to complete the installation?

A.

LC to SC

- B.**
SC to ST
- C.**
LC to ST
- D.**
ST to ST
- E.**
SC to SC

Answer: C

Explanation:

QUESTION NO: 68

A computer lab on a campus network was recently reconfigured using recycled network cables. One of the 24 computers in the lab is unable to connect to the network after the upgrade. A network technician successfully uses the cable in question to connect directly to another computer. Which of the following is MOST likely issue with the cable?

- A.**
The cable is a crossover cable
- B.**
The cable is rollover cable
- C.**
The cable has bent pins
- D.**
The cable is a Cat 5 cable

Answer: A

Explanation:

QUESTION NO: 69

Which of the following is a reason why a business may be hesitant to move sensitive data to a

SaaS cloud service?

- A.**
Decreased performance of internal network
- B.**
Loss of full control over data resources
- C.**
Increased malware exposure
- D.**
Incompatibility with the current network

Answer: B

Explanation:

QUESTION NO: 70

Users have been experiencing slow network response times, and management has asked the network technician to provide evidence of network improvement. After optimizing the network, which of the following would be required?

- A.**
IDF/MDF documentation
- B.**
Change management
- C.**
Performance baseline
- D.**
Physical diagram

Answer: C

Explanation:

QUESTION NO: 71

A network technician has created a network that consists of a router, a firewall, a switch, and several PCs. Which of the following physical network topologies was created?

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

Answer: D

Explanation:

QUESTION NO: 72

A technician is setting up a branch office on a point-to-point connection. Which of the following IP network blocks is the MOST efficient use of IP address space for the router connections between the two sites?

- A.**
/24
- B.**
/25
- C.**
/30
- D.**
/32

Answer: C

Explanation:

QUESTION NO: 73

A technician is upgrading the firmware on an older KVM switch. The specifications call for a serial port to connect to the computer on one side, and an Ethernet jack to connect to the switch on the other side. Which of the following connectors does the technician need for this cable? (Choose two.)

- A.**
RG-9
- B.**
DB-9
- C.**
RJ-11
- D.**
DB-25
- E.**
RJ-45
- F.**
BNC

Answer: B,E

Explanation:

QUESTION NO: 74

An end-user device requires a specific IP address every time it connects to the corporate network; however, corporate policy does not allow the use of static IP addresses. Which of the following will allow the request to be fulfilled without breaking the corporate policy?

- A.**
DHCP relay
- B.**
DHCP exclusion
- C.**
DHCP option
- D.**
DHCP reservation

Answer: D

Explanation:

QUESTION NO: 75

A technician is planning a remote-access strategy to manage routers and switches on a dedicated management network. The management network is segregated from the production network and uses site-to-site VPN connections. Some of the equipment does not support encryption. Which of the following should the technician choose that all the equipment would support?

- A.**
Telnet
- B.**
SSL
- C.**
SSH
- D.**
IPSec

Answer: A

Explanation:

QUESTION NO: 76

Which of the following protocols do MOST MITM attacks utilize?

- A.**
ARP
- B.**
SIP
- C.**
FTP
- D.**
SCP

Answer: A

Explanation:

QUESTION NO: 77

An ISP technician gets a call from a business that just changed equipment but can no longer connect to the Internet. The technician checks the ARP table on the ISP switch, and there is no corresponding MAC address present. Instead, the entry is "Incomplete". Which of the following could cause this condition?

- A.**
VLAN mismatch
- B.**
Duplex/Speed mismatch
- C.**
Duplicate IP address
- D.**
TX/RX reverse

Answer: B

Explanation:

QUESTION NO: 78

A systems administrator has recently purchased and installed a large electronic signage screen for the company's parking garage. The screen's management software was installed on a server with public IP address to allow remote management. The systems administrator is now troubleshooting an issue with the screen displaying unknown, random, and inappropriate messages. Which of the following is MOST effective in resolving this issue?

- A.**
Changing the management software's default credentials
- B.**
Disabling unnecessary services from the server and management software
- C.**

Changing the management software's default port

D.

Replacing the management software's self-signed certificate with a valid certificate

Answer: A

Explanation:

QUESTION NO: 79

A technician is investigating a server performance issue. The technician has gathered the server utilization statistics. Which of the following should the technician use to determine which statistics are not in the normal range?

A.

Baseline review

B.

Vulnerability scan

C.

System life-cycle report

D.

Archiving logs

Answer: A

Explanation:

QUESTION NO: 80

Which of the following devices, if implemented, would result in decreased administration time of an 802.11 network running centralized authentication services? (Choose two.)

A.

VPN concentrator

B.

Proxy server

- C.**
Wireless controller
- D.**
RADIUS server
- E.**
Multilayer switch

Answer: C,D

Explanation:

QUESTION NO: 81

A technician must determine if a web page user's visits are connecting to a suspicious website's IP address in the background. Which of the following tools would provide the information on TCP connections?

- A.**
netstat
- B.**
tracert
- C.**
arp
- D.**
ipconfig
- E.**
route

Answer: A

Explanation:

QUESTION NO: 82

An administrator is moving to a new office. There will be several network runs through the ceiling area of the office. Which of the following is the BEST to utilize in these areas?

- A.**
Single-mode fiber-optic cabling
- B.**
Cat 5e-rated cabling
- C.**
Cat 6-rated cabling
- D.**
Plenum-rated cabling

Answer: D

Explanation:

QUESTION NO: 83

A network technician receives a spool of Cat 6a cable and is asked to build several cables for a new set of Ethernet runs between devices. Which of the following tools are MOST likely needed to complete the task? (Choose three.)

- A.**
Wire stripper
- B.**
Cable crimper
- C.**
RJ-11 connectors
- D.**
RJ-45 connectors
- E.**
Multimeter
- F.**
Punchdown tool
- G.**
Tone generator

Answer: A,B,D

Explanation:

QUESTION NO: 84

As part of a transition from a static to a dynamic routing protocol on an organization's internal network, the routing protocol must support IPv4 and VLSM. Based on those requirements, which of the following should the network administrator use? (Choose two.)

- A.**
OSPF
- B.**
IS-IS
- C.**
RIPv1
- D.**
BGP
- E.**
VRRP

Answer: A,B

Explanation:

QUESTION NO: 85

A telecommunications provider has just deployed a new OC-12 circuit at a customer site. While the circuit showed no errors from the provider end to the customer's demarcation point, a network administrator is trying to determine the cause of dropped packets and errors on the circuit. Which of the following should the network administrator do to rule out any problems at Layer 1? (Choose two.)

- A.**
Use a loopback at the demark and router, and check for a link light
- B.**
Use an OTDR to validate the cable integrity

C.

Use a pinout tester to validate the cable integrity

D.

Use a multimeter to validate the cable integrity

E.

Check for any devices that may be causing EMI on the cable

F.

Clean the cables to be sure they are free of dust and debris

Answer: A,B

Explanation:

QUESTION NO: 86

A single PRI can deliver multiple voice calls simultaneously using which of the following Layer 1 technologies?

A.

Time division multiplexing

B.

Analog circuit switching

C.

CSMA/CD

D.

Time division spread spectrum

Answer: A

Explanation:

QUESTION NO: 87

A network technician is diagnosing a time-out issue generated from an end user's web browser. The web browser issues standard HTTP get and post commands to interact with the website. Given this information, the technician would like to analyze the entire TCP handshake of the HTTP

requests offline. Which of the following tools would allow the technician to view the handshake?

- A.**
Packet analyzer
- B.**
Port analyzer
- C.**
SNMP traps
- D.**
Spectrum analyzer

Answer: A

Explanation:

QUESTION NO: 88

A customer cannot access a company's secure website. The company's network security is reviewing the firewall for the server and finds the following output:

Time	Action	Src IP	Src Port	Dst IP	Dst Port
0902	Allow	12.73.15.5	31865	10.5.0.10	80
1005	Deny	12.73.15.5	31866	10.5.0.10	443
1006	Deny	12.73.15.5	31890	10.5.0.10	443

Which of the following changes should be made to allow all customers to access the company's secure website?

- A.**
Allow any any 10.5.0.10 443
- B.**
Allow any any 12.73.15.5 443
- C.**
Allow 10.5.0.10 443 any any
- D.**
Allow 10.5.0.10 any 10.5.0.10 80

Answer: C

Explanation:

QUESTION NO: 89

Which of the following **MUST** be implemented to share metrics between routing protocols within the same router?

- A.**
Routing loop
- B.**
Routing table
- C.**
Route redistribution
- D.**
Dynamic routes

Answer: B

Explanation:

QUESTION NO: 90

An engineer is reviewing the implementation requirements for an upcoming project. The basic requirements identified by the customer include the following:

- WLAN architecture supporting speeds in excess of 150 Mbps
- Clientless remote network access
- Port-based network access control

Which of the following solution sets properly addresses all of the identified requirements?

- A.**
802.11a, IPSec VPN, 802.1x
- B.**
802.11ac, MPLS, 802.3
- C.**
802.11b, PPTP, 802.1x

D.
802.11g, MS-CHAP, 802.16

E.
802.11n, SSL-VPN, 802.1x

Answer: E

Explanation:

QUESTION NO: 91

Which of the following is used to classify network data for the purpose of providing QoS?

A.
STP

B.
VLANs

C.
SIP

D.
DSCP

Answer: D

Explanation:

QUESTION NO: 92

A network technician needs to separate a web server listening on port 80 from the internal LAN and secure the server from the public Internet. The web server should be accessible to the public Internet over port 80 but not the private LAN. Currently, the network is segmented with a network-based firewall using the following IP addressing scheme on each interface:

Zone	Interface	IP Address
Public	eth0	10.0.0.1/24
DMZ	eth1	10.0.1.1/24
Private	eth2	10.0.2.1/24

Which of the following ones should the technician use to place the web server and which of the following firewall rules should the technician configure?

A.

Place the web server in the public zone with an inbound rule from eth0 interface to accept traffic over port 80 designated to the web server

B.

Place the web server in the DMZ with an inbound rule from eth0 interface to eth1 to accept traffic over port 80 designated to the web server

C.

Place the web server in the private zone with an inbound rule from eth2 interface to eth1 to accept traffic over port 80 designated to the web server

D.

Place the web server in the DMZ with an inbound rule from eth1 interface to eth0 to accept traffic over port 80 designated to the web server

Answer: B

Explanation:

QUESTION NO: 93

A company recently upgraded all of its printers to networked multifunction devices. Users can print to the new devices, but they would also like the ability to scan and fax files from their computers. Which of the following should the technician update to allow this functionality?

A.

Device software

B.

Printer drivers

C.

Printer firmware

D.

NIC drivers

Answer: C

Explanation:

QUESTION NO: 94

A disgruntled employee executes a man-in-the-middle attack on the company network. Layer 2 traffic destined for the gateway is redirected to the employee's computer. This type of attack is an example of:

A.

ARP cache poisoning

B.

IP spoofing

C.

amplified DNS attack

D.

evil twin

Answer: A

Explanation:

QUESTION NO: 95

The process of attempting to exploit a weakness in a network after being given permission by the company is known as:

A.

penetration testing

B.

vulnerability scanning

- C.**
reconnaissance
- D.**
social engineering

Answer: A

Explanation:

QUESTION NO: 96

A company has contracted with an outside vendor to perform a service that will provide hardware, software, and procedures in case of a catastrophic failure of the primary datacenter. The Chief Information Officer (CIO) is concerned because this contract does not include a long-term strategy for extended outages. Which of the following should the CIO complete?

- A.**
Disaster recovery plan
- B.**
Business continuity plan
- C.**
Service level agreement
- D.**
First responder training

Answer: B

Explanation:

QUESTION NO: 97

A typical cell tower will have microwave and cellular antennas. Which of the following network topologies do these represent? (Choose two.)

- A.**
Point-to-multipoint

- B.**
Bus
- C.**
Point-to-point
- D.**
Mesh
- E.**
Peer-peer
- F.**
Ring

Answer: C,D

Explanation:

QUESTION NO: 98

A network administrator has a monitoring system in place that is currently polling hundreds of network devices at regular intervals. The continuous polling is causing high CPU utilization on the server. Which of the following tasks should the administrator perform to resolve the CPU issue while maintaining full monitoring capabilities?

- A.**
Remove SNMP polling and configure SNMP traps on each network device
- B.**
Remove SNMP polling and implement snmpwalk on each network device
- C.**
Upgrade SNMP to the latest version to mitigate vulnerabilities
- D.**
Modify SNMP polling to poll only during business hours

Answer: A

Explanation:

QUESTION NO: 99

A contractor is setting up and configuring conference rooms for a convention. The contractor sets up each room in the conference center to allow wired Internet access going to individual tables. The contractor measured the distance between the hotel's patch panel to the jack, and the distance is within Cat 5e specifications. The contractor is concerned that the room will be out of specification if cables are run in each room from the wall jacks. Which of the following actions should the contractor take to ensure the cable runs meet specifications and the network functions properly?

A.

Place a switch at the hotel's patch panel for connecting each room's cables

B.

Place a switch on each table to ensure strong connectivity

C.

Place repeaters between the patch panel and the rooms

D.

place a switch at the wall jack and run the cables in the room from there

Answer: A

Explanation:

QUESTION NO: 100

Users are reporting their network is extremely slow. The technician discovers pings to external host have excessive response times. However, internal pings to printers and other PCs have acceptable response times. Which of the following steps should the technician take NEXT?

A.

Determine if any network equipment was replaced recently

B.

Verify malware has not disabled the users' PC firewalls

C.

Replace users' network cables with known-good network cables

D.

Power cycle the web server

Answer: A

Explanation:

QUESTION NO: 101

Which of the following is a system of notation that uses base 16 rather than base 10?

- A.**
Hex
- B.**
Octal
- C.**
Binary
- D.**
CIDR

Answer: A

Explanation:

QUESTION NO: 102

A network administrator would like to collect information from several networking devices using SNMP. Which of the following SNMP options should a network administrator use to ensure the data transferred is confidential?

- A.**
authpriv
- B.**
SHA
- C.**
MD5
- D.**
Authentication passphrase

Answer: A

Explanation:**QUESTION NO: 103**

The IT manager at a small firm is in the process of renegotiating an SLA with the organization's ISP. As part of the agreement, the organization will agree to a dynamic bandwidth plan to provide 150Mbps of bandwidth. However, if the ISP determines that a host on the organization's internal network produces malicious traffic, the ISP reserves the right to reduce available bandwidth to 1.5 Mbps. Which of the following policies is being agreed to in the SLA?

- A.**
Session hijacking
- B.**
Blocking
- C.**
Throttling
- D.**
Data usage limits
- E.**
Bandwidth quotas

Answer: C**Explanation:****QUESTION NO: 104**

A network technician has just configured NAC for connections using Cat 6 cables. However, none of the Windows clients can connect to the network.

Which of the following components should the technician check on the Windows workstations?
(Choose two.)

- A.**
Start the Wired AutoConfig service in the Services console
- B.**

Enable IEEE 802.1q Authentication in Network Interface Card Properties

C.

Enable IEEE 802.1x Authentication in Network Interface Card Properties

D.

Start the Wireless AutoConfig service in the Services console

E.

Enable IEEE 802.3 Ethernet IPv6 in Network Interface Card Properties

Answer: A,C

Explanation:

QUESTION NO: 105

The security manager reports that individual systems involved in policy or security violations or incidents cannot be located quickly. The security manager notices the hostnames all appear to be randomly generated characters. Which of the following would BEST assist the security manager identifying systems involved in security incidents?

A.

Enforce port security to require system authentication

B.

Implement a standardized UNC

C.

Label existing systems with current hostnames

D.

Forward the DHCP logs to the security manager every day

Answer: B

Explanation:

QUESTION NO: 106

A building is equipped with light sensors that turn off the fluorescent lights when natural light is above a certain brightness. Users report experiencing network connection issues only during

certain hours. The west side of the building experiences connectivity issues in the morning hours and the east side near the end of the day. At night the connectivity issues affect the entire building. Which of the following could be the cause of the connectivity issues?

- A.**
Light sensors are interfering with the network
- B.**
EMI from the lights is interfering with the network cables
- C.**
Network wiring is run perpendicular to electrical conduit
- D.**
Temperature changes are causing attenuation in copper cabling

Answer: C

Explanation:

QUESTION NO: 107

A network technician configures a firewall's ACL to allow outgoing traffic for several popular services such as email and web browsing. However, after the firewall's deployment, users are still unable to retrieve their emails. Which of the following would BEST resolve this issue?

- A.**
Allow the firewall to accept inbound traffic to ports 25, 67, 179, and 3389
- B.**
Allow the firewall to accept inbound traffic to ports 80, 110, 143, and 443
- C.**
Set the firewall to operate in transparent mode
- D.**
Allow the firewall to accept inbound traffic to ports 21, 53, 69, and 123

Answer: B

Explanation:

QUESTION NO: 108

A network security technician observes multiple attempts to scan network hosts and devices. All the attempts originate from a single host on the network. Which of the following threats is MOST likely involved?

- A.**
Smurf attack
- B.**
Rogue AP
- C.**
Compromised system
- D.**
Unintentional DoS

Answer: C

Explanation:

QUESTION NO: 109

Which of the following would be the MOST efficient subnet mask for a point-to-point link?

- A.**
/28
- B.**
/29
- C.**
/31
- D.**
/32

Answer: C

Explanation:

QUESTION NO: 110

An office user cannot access local network drives but has full access to the Internet. A technician troubleshoots the issue and observes the following output of the ipconfig command:

Windows IP Configuration

```
Ethernet LAN Adapter: 980GTS
Connection-specific DNS Suffix: ...comptia.net
IPv4 Address: .....10.0.5.99
Subnet Mask: .....255.255.255.0
Default Gateway: ...10.0.5.1

Wireless LAN Adapter: FastWifi 99
Connection-specific DNS Suffix: ...guestwireless.local
IPv4 Address: .....172.16.0.5
Subnet Mask: .....255.255.255.0
Default Gateway: ...172.16.0.254
```

Which of the following would MOST likely allow the network drives to be accessed?

- A.**
Update the WLAN adapter driver
- B.**
Disable the WLAN adapter
- C.**
Check the wireless DHCP configuration
- D.**
Disable the LAN adapter

Answer: B

Explanation:

QUESTION NO: 111

Ann, a network technician, has just installed a fiber switch in a datacenter. To run the fiber cabling, Ann plans the cable route over the top of the rack using the cable trays, down to the switch, coiling up any excess cable. As Ann configures the switch, she notices several messages in the logging buffer stating the receive signal of the SFP is too weak. Which of the following is MOST likely the cause of the errors in the logging buffer?

- A.**

Bend radius exceeded

B.

Fiber cable mismatch

C.

Fiber type mismatch

D.

Bad fiber switch

Answer: A

Explanation:

QUESTION NO: 112

Which of the following wireless connection types utilize MIMO on non-overlapping channels?
(Choose two.)

A.

802.11a

B.

802.11ac

C.

802.11b

D.

802.11g

E.

802.11n

Answer: B,E

Explanation:

QUESTION NO: 113

A network technician is creating a new subnet for 488 host machines. The technician is told to use

a class B address scheme when making the subnet and is instructed to leave as much room as possible for additional subnets of the same size. Which of the following subnets would fulfill these requirements?

- A.**
10.5.4.0/22
- B.**
10.233.2.0/23
- C.**
172.16.0.0/22
- D.**
172.18.0.0/23
- E.**
192.168.25.0/24

Answer: D

Explanation:

QUESTION NO: 114

A network engineer is designing a new IDF in an old building. The engineer determines the equipment will fit in a two-post rack, and there is power available for this equipment. Which of the following would be the FIRST issue to remediate?

- A.**
Air flow and cooling
- B.**
UPS capability
- C.**
Circuit labeling
- D.**
Power redundancy

Answer: A

Explanation:

QUESTION NO: 115

Which of the following DNS records needs to be configured for SMTP traffic?

- A.**
MX
- B.**
CNAME
- C.**
AAAA
- D.**
PTR

Answer: A

Explanation:

QUESTION NO: 116

In which of the following ways does a DDoS attack differ from a spoofing attack?

- A.**
DDoS attacks target multiple networks
- B.**
Spoofing attacks originate from a single host
- C.**
DDoS attacks are launched from multiple hosts
- D.**
Spoofing attacks require physical presence

Answer: C

Explanation:

QUESTION NO: 117

A user checks an IP address using an external website. The address is different than the one the user sees when opening a command prompt and typing in ipconfig/all. The user does not understand why the two tools show different IP addresses. This is BEST explained by the interworking of:

- A.**
network devices
- B.**
packet flow
- C.**
public/private networks
- D.**
traffic-routing protocols

Answer: C

Explanation:

QUESTION NO: 118

Which of the following communication media can carry many voice, data, and video channels simultaneously over multiple frequencies?

- A.**
Broadband
- B.**
Baseband
- C.**
Analog modem
- D.**
CSMA

Answer: A

Explanation:

QUESTION NO: 119

To replace a defective UPS, the network administrator must take the switch offline. The administrator wants to be able to perform maintenance UPS in the future without affecting the availability of the attached switch. Which of the following would BEST allow this to happen?

- A.**
Add a redundant power supply to the switch
- B.**
Implement stacking on the switches in the rack
- C.**
Add a second UPS into the rack
- D.**
Install a power converter for the switch

Answer: A

Explanation:

QUESTION NO: 120

A forensic first responder arrives at the scene where an employee is suspected to have committed a computer-based crime. Which of the following should the first responder do FIRST?

- A.**
Document the scene
- B.**
Take pictures upon arrival
- C.**
Secure the area
- D.**
Implement chain of custody

Answer: C

Explanation:

QUESTION NO: 121

A small town is attempting to attract tourists who visit larger nearby cities. A network engineer is asked to implement a network encompassing the five-block town center and nearby businesses. The inclusion of smartphones and portable devices is crucial to the plan. Which of the following is the network engineer being asked to implement?

- A.**
LAN
- B.**
PAN
- C.**
MAN
- D.**
WAN

Answer: C

Explanation:

QUESTION NO: 122

An employee wishes to use a personal cell phone for work-related purposes, including storage of sensitive company data, during long business trips. Which of the following is needed to protect BOTH the employee and the company?

- A.**
An NDA ensuring work data stored on the personal phone remains confidential
- B.**
An AUP covering how a personal phone may be used for work matters
- C.**
A consent to monitoring policy covering company audits of the personal phone
- D.**

Real-time remote monitoring of the phone's activity and usage

Answer: D

Explanation:

QUESTION NO: 123

Which of the following protocols can be both connection-oriented and connectionless?

- A.**
20 FTP
- B.**
53 DNS
- C.**
67 DHCP
- D.**
80 HTTP

Answer: B

Explanation:

QUESTION NO: 124

Which of the following BEST describes the differences between VLAN hopping and session hijacking?

- A.**
VLAN hopping involves the unauthorized transition from one VLAN to another to gain additional access. Session hijacking involves overriding a user's web connection to execute commands
- B.**
VLAN hopping is a brute force attack executed to gain additional access. Session hijacking involves physically disrupting a network connection
- C.**
VLAN hopping involves overriding a user network connection to execute malicious commands.

Session hijacking involves compromising a host to elevate privileges

D.

VLAN hopping is the act of exploiting poor VLAN tagging. Session hijacking is a web-based attack aimed at privilege escalation

Answer: A

Explanation:

QUESTION NO: 125

An analyst is developing a proof of concept of a wireless-based attack as part of a penetration test against an organization's network. As part of the attack, the analyst launches a fake access point matching the SSID of the organization's guest access network. When a user connects to the fake access point, the analyst allows the traffic to flow through the access point to the legitimate site while the data traversing the network is logged for latest analysis and exploitation. Which of the following attacks has the analyst successfully performed in this scenario?

A.

Bluesnarfing

B.

Session hijacking

C.

MAC spoofing

D.

VLAN hopping

E.

Man-in-the-middle

Answer: E

Explanation:

QUESTION NO: 126

A network administrator receives a call from the sales department requesting ports 20 and 21 be opened on the company's firewall to allow customers to retrieve a large file. Which of the following

should the administrator perform BEFORE making the needed changes? (Choose two.)

- A.**
Document the reason for the request
- B.**
Scan the file for malware to protect the sales department's computers
- C.**
Follow the company's approval process for the implementation
- D.**
Install a TFTP server for the customers to use for the transfer
- E.**
Create a honeypot to store the file on for the customers to use
- F.**
Write the SLA for the sales department authorizing the change

Answer: A,C

Explanation:

QUESTION NO: 127

A user reports that a laptop cannot connect to the Internet despite the fact the wireless Internet was functioning on it yesterday. The user did not modify the laptop in any way, and the wireless Internet is functional on other users' laptops. Which of the following issues should be reviewed to help the user to connect to the wireless network?

- A.**
Wireless switch toggled off
- B.**
WAP settings
- C.**
WLAN IP address out of scope
- D.**
Wireless controller misconfiguration

Answer: A

Explanation:

QUESTION NO: 128

A network administrator wants to increase the confidentiality of the system by hardening the authentication process. Currently, the users log in using usernames and passwords to access the system. Which of the following will increase the authentication factor to three?

- A.**
Adding a fingerprint reader to each workstation and providing a RSA authentication token
- B.**
Adding a fingerprint reader and retina scanner
- C.**
Using a smart card and RSA token
- D.**
Enforcing a stronger password policy and using a hand geometry scan

Answer: A

Explanation:

QUESTION NO: 129

A network technician is building a network for a small office. The office currently has cable TV and now requires access to the Internet without adding any cabling other than what is already in place. Which of the following solutions should the technician install to meet these requirements?

- A.**
DOCSIS modem
- B.**
Wireless router
- C.**
DSL modem
- D.**
Access point

Answer: A

Explanation:

QUESTION NO: 130

A network engineer arrives at work and discovers that many users are having problems when attempting to connect to the company network shared drives. The network operations center (NOC) technician just completed server upgrades the night before. To which of the following documents should the NOC technician refer to determine what potentially caused the connectivity problem?

- A.**
Network maps
- B.**
Cable management
- C.**
Release notes
- D.**
Change management

Answer: D

Explanation:

QUESTION NO: 131

Which of the following VPN protocols establishes a secure session that can be initiated using a browser?

- A.**
IPSec
- B.**
SSL VPN
- C.**
PTP

D.
PPTP

Answer: B

Explanation:

QUESTION NO: 132

A technician is setting up a public guest network for visitors to access the Internet that must be separate from the corporate network. Which of the following are the BEST steps for the technician to take with minimum overhead configuration? (Choose two.)

- A.**
Enable SSID broadcasting to identify the guest network
- B.**
Configure visitor devices to use static IP addresses
- C.**
Enable two-factor authentication on visitor devices
- D.**
Configure the access point to use WPA2-AES encryption
- E.**
Ensure the access point is not running in mixed mode

Answer: A,B

Explanation:

QUESTION NO: 133

When choosing a type of storage that integrates with the existing network infrastructure, the storage must be easily configurable to share files and can communicate with all existing clients over TCP/IP. Which of the following is the BEST technology for the network administrator to implement?

- A.**
iSCSI

- B.**
Fibre Channel
- C.**
NAS
- D.**
DAS

Answer: C

Explanation:

QUESTION NO: 134

A network technician is installing a new network switch is looking for an appropriate fiber optic patch cable. The fiber optic patch panel uses a twist-style connector. The switch uses a SFP module. Which of the following connector types should the fiber patch cable have?

- A.**
LC
- B.**
ST
- C.**
SC
- D.**
MTRJ
- E.**
MTP

Answer: B

Explanation:

QUESTION NO: 135

Which of the following WAN technologies utilizes the concept of virtual circuits and point-multipoint connections?

- A.**
ISDN
- B.**
MPLS
- C.**
PRI
- D.**
Broadband cable
- E.**
Frame relay

Answer: E

Explanation:

QUESTION NO: 136

A network administrator wishes to ensure there are no unnecessary open communication paths into a server. Using a port scanner, the administrator finds that ports are reported as closed. Which of the following BEST explains this response?

- A.**
The ports belong to an active system and are denying requests
- B.**
The ports are associated with deprecated services
- C.**
The ports do not belong to a live system
- D.**
The ports replied with a SYN/ACK response

Answer: B

Explanation:

QUESTION NO: 137

Users are reporting issues with slow connection speeds and a loss of connectivity on the newly installed wireless network. The issues are intermittent but seem to occur most often around midday. Which of the following is the MOST likely cause?

A.

There is interference from small appliances

B.

The signal coverage area is too small

C.

Not enough DHCP addresses have been allotted

D.

The DNS cache on the users' computers has become corrupt

Answer: C

Explanation:

QUESTION NO: 138

A user reports difficulties connecting a PC to a wired network. The PC connects to an IP phone, which is working correctly. A network technician can verify that other devices successfully connect to the phone. At which of the following layers of the OSI model is the problem MOST likely located?

A.

Network

B.

Physical

C.

Transport

D.

Application

Answer: A

Explanation:

QUESTION NO: 139

Which of the following physical security controls is MOST likely to be susceptible to a false positive?

- A.**
Identification card
- B.**
Biometric device
- C.**
Proximity reader
- D.**
Video camera

Answer: C

Explanation:

QUESTION NO: 140

An assistant systems analyst reports the following findings of an investigation of slow Internet connections in a remote office to the senior systems analyst:

Device	CPU Utilization	Memory Utilization	Link Status
Router	5%	43%	Good
Firewall	92%	58%	Good
Switch 1	23%	32%	Good
Switch 2	8%	81%	Good

Which of the following devices is causing the issue?

- A.**
Router
- B.**
Firewall
- C.**
Switch 1
- D.**
Switch 2

Answer: B

Explanation:

QUESTION NO: 141

A small business developed an in-house application that is very sensitive to network latency when communicating between servers. Due to a lack of funds, the business had to build its own network for workstations and servers. Now a network administrator must redesign the network due to performance issues with the application. Which of the following would be the MOST cost effective for the administrator to recommend?

- A.**
Create Ethernet VLANs
- B.**
Disable autonegotiation on the servers
- C.**
Install 10Gb Ethernet NICs in the servers
- D.**
Install Fibre Channel for the server network

Answer: C

Explanation:

QUESTION NO: 142

A network technician is configuring a firewall access list to secure incoming connections to an email server. The internal address of this email server is 192.168.1.143. The firewall should allow external email servers to send email to the email server. The email server also supports client access via a web browser. Only secure protocols should be used, and only the necessary ports should be open. Which of the following ACL rules should be configured in the firewall's WAN port? (Choose two.)

- A.**
Permit 192.168.1.143.25
- B.**
Permit 192.168.1.143.80

C.

Permit 192.168.1.143.110

D.

Permit 192.168.1.143.143

E.

Permit 192.168.1.143.443

F.

Permit 192.168.1.143.587

Answer: E,F

Explanation:

QUESTION NO: 143

A network administrator is testing connectivity at a new corporate site. The site has a wireless guest as well as a wired employee network. After verifying connectivity, the administrator checks link speeds by using a speed testing website. The speed testing website shows lower download and upload speeds for the wired network than the wireless network. Which of the following is the MOST likely explanation?

A.

There is less local congestion on the wireless network

B.

The testing server for the wired network was farther away

C.

The firewall is configured to throttle traffic to specific websites

D.

The wireless access points were misconfigured

Answer: B

Explanation:

QUESTION NO: 144

A technician replaces a failed router with a spare that has been in inventory for some time. After attempting to enable HTTPS on the spare router, the technician discovers the feature is unavailable. The support office was able to connect to the previous router. Which of the following actions should the technician perform to enable HTTPS access for the support team?

- A.**
Reboot the router
- B.**
Enable HTTP on the router
- C.**
Update the firmware of the spare router
- D.**
Perform a factory reset on the router

Answer: C

Explanation:

QUESTION NO: 145

A technician is trying to configure a previously owned WAP. The technician successfully logs into the administrative console and attempts to input the IP address on the WAP. However, the WAP is not accepting the command. Which of the following is causing the problem?

- A.**
The WAP antenna is damaged
- B.**
The WAP transmitter light is dim
- C.**
The terminal emulation software is misconfigured
- D.**
The LWAPP image is installed on the WAP

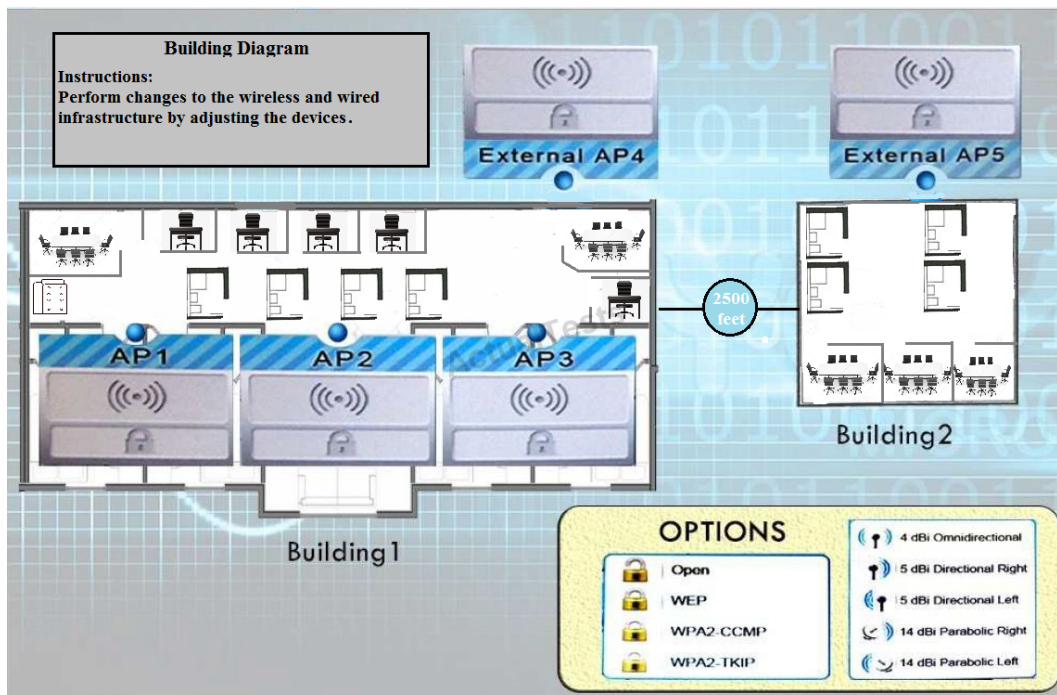
Answer: C

Explanation:

QUESTION NO: 146 CORRECT TEXT

Your company recently purchased a new building down the street from the existing office. For each of the tasks below, select the appropriate antenna type and encryption object for all wireless access point (AP).

1. Create an encrypted wireless connection between the two buildings that BEST controls signal propagation, while maximizing security.
2. Restrict the wireless signal generated by the access points (APs) inside Building 1, so that it minimizes broadcast beyond the building.
3. Maximize wireless coverage inside Building 1.
4. Building 1's internal wireless network is for visitors only and must not require any special configuration on the visitor's device to connect.

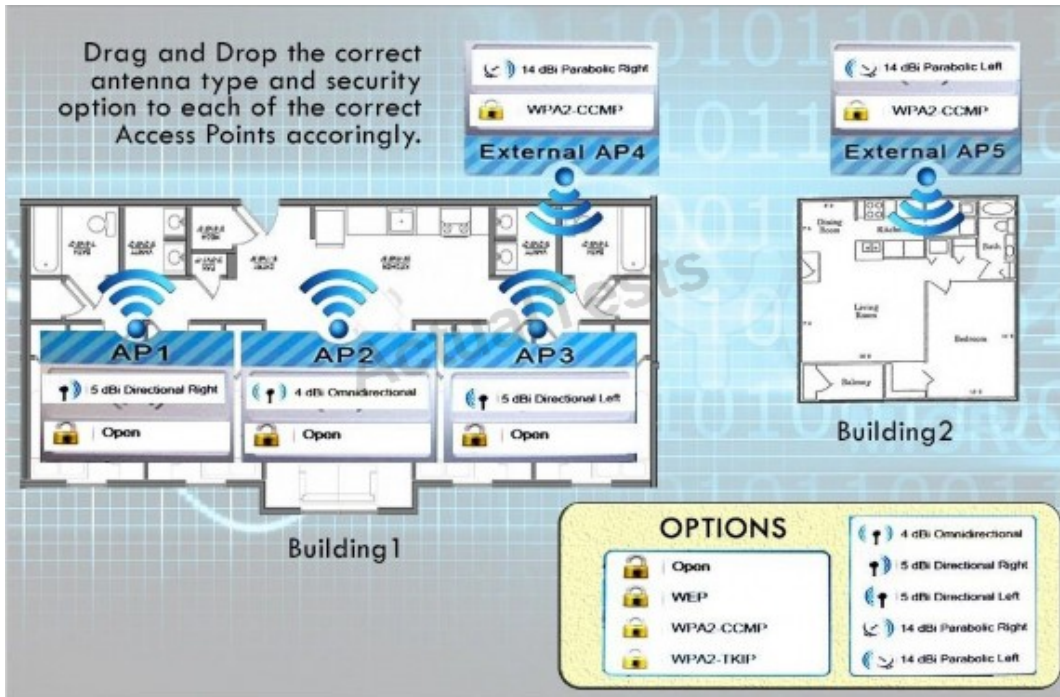


Instructions: When you have completed the simulation, select the Done button to submit.

Answer:

See explanation below.

Explanation:

**QUESTION NO: 147**

A technician has installed a Linux server in the tax office. The server can access most of the resources on the network, but it cannot connect to another server that has a share for backup. The technician learns that the target server is on a different subnet. Which of the following tools should the technician use to ensure the Linux server can reach the backup location?

- A.
netstat
- B.
traceroute
- C.
route
- D.
dig
- E.
ifconfig

Answer: B

Explanation:

QUESTION NO: 148

Which of the following WAN technologies provides a guaranteed throughput rate?

- A.**
DSL
- B.**
T-1
- C.**
Cable broadband
- D.**
Dial-up

Answer: B

Explanation:

QUESTION NO: 149

Which of the following is the SHORTEST way to write 2001:0000:0d58:0000:0000:0095:7565:0001 in proper IPv6 shorthand?

- A.**
2001::d58::95:7565:1
- B.**
2001:0:d58:0:0:95:7565:1
- C.**
2001:0:d58::95:7565:1
- D.**
2001:0:0d58::95:7565:1

Answer: C

Explanation:

QUESTION NO: 150

A network administrator needs to transmit traffic to geographically diverse sites to improve performance. Which of the following devices would BEST direct traffic to the remote sites?

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

Answer: D

Explanation:

QUESTION NO: 151

Which of the following should a technician investigate when using a network baseline to troubleshoot?

- A.**
Tracing a network wire connectivity issue from the datacenter to a host.
- B.**
Determining if the server performance is degraded.
- C.**
Changes that have been made to the network configuration.
- D.**
Location of networking equipment in a rack.

Answer: B

Explanation:

QUESTION NO: 152

A technician needs to upgrade a SOHO wireless router's firmware. The technician resets the router to factory settings and installs the new firmware. The technician enters the DHCP information and sets the SSID. Which of the following configurations would provide the MOST protection from advance hackers?

- A.**
Disable the broadcasting of the SSID.
- B.**
Enable WPA2 authentication for all hosts.
- C.**
Use private addressing for the DHCP scope.
- D.**
Install unidirectional antennas.

Answer: B

Explanation:

QUESTION NO: 153

A technician notices clients are receiving a 169.254.x.x IP address following the upgrade of a server. Which of the following ports should the technician check on the local server firewall?

- A.**
ports 20 and 21
- B.**
ports 67 and 68
- C.**
ports 80 and 443
- D.**
port 123 and 8080

Answer: B

Explanation:

QUESTION NO: 154

Which of the following datacenter security methodologies is MOST likely to remain usable during a network outage?

- A.**
biometric scanners
- B.**
door locks
- C.**
video surveillance
- D.**
motion detectors

Answer: B

Explanation:

QUESTION NO: 155

A network technician is implementing a solution on the network to hide the workstation internal IP addresses across a WAN. Which of the following is the technician configuring?

- A.**
QoS
- B.**
DMZ
- C.**
RIP
- D.**
NAT

Answer: D

Explanation:

QUESTION NO: 156

Employees want the ability to use personal devices on the guest network while working out at the company gym. In order to meet the request, which of the following policies requires employee adherence?

- A.**
AUP
- B.**
SLA
- C.**
NDA
- D.**
MOU

Answer: A

Explanation:

QUESTION NO: 157

Which of the following BEST describes the BGP routing protocol?

- A.**
distance vector
- B.**
hybrid
- C.**
static
- D.**
link state

Answer: B

Explanation:

QUESTION NO: 158

A customer is reporting difficulty connecting some devices after replacing a wireless router with a new wireless 802.11ac router. The SSID, encryption and password are the same as the previous router. A technician goes on-site and notices the devices that are no longer connecting appear to be several years ago. Which of the following is MOST likely the problem?

- A.**
the password needs to be re-entered.
- B.**
there is a security type mismatch.
- C.**
there is insufficient antenna power.
- D.**
there is a frequency mismatch.
- E.**
the channel has changed.

Answer: D

Explanation:

QUESTION NO: 159

Multiple users are reporting that they are unable to access the network. The ENTIRE network is shown in the diagram. PCs are not statically assigned IP addresses. The following devices will display settings:

- WorkstationA
- WorkstationB
- WorkstationC
- WorkstationD
- WorkstationE
- WorkstationF
- WorkstationG

Laptop1

Laptop2

DHCP server1

DHCP server2

Review the settings and select the box in the diagram that identifies the device causing the issue. Only one device can be selected at a time.

After checking the device that is causing the issue, select the second tab in the lower left hand corner. Identify the reason as to why some users are unable to access the network.

Instructions:

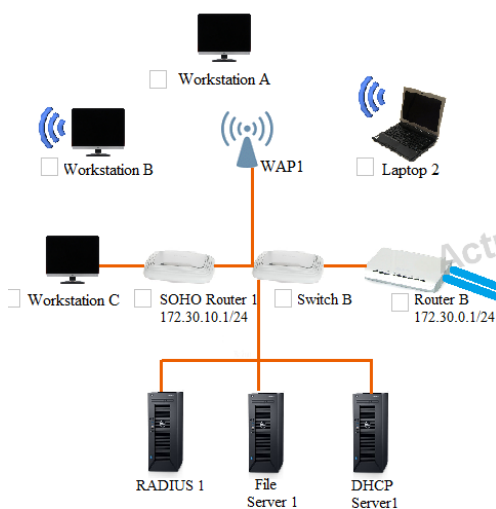
When the simulation is complete, select the Done button to submit.

Part 1

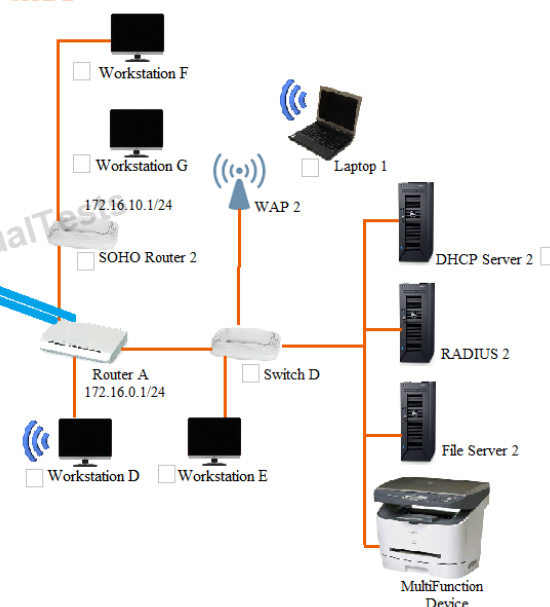
Site A and B Network Diagram

Instructions: Only one device can be selected at a time. Please ensure you complete Part 1 and Part 2 of the simulation.

SITE A



SITE B



WORKSTATION A

IP Address	172.30.0.10
Netmask	255.255.255.0
Gateway	172.30.0.1

WORKSTATION B

IP Address	172.30.0.14
Netmask	255.255.255.0
Gateway	172.30.10.1

WORKSTATION C

IP Address	169.254.200.67
Netmask	255.255.255.0
Gateway	

WORKSTATION D

IP Address	172.16.0.221
Netmask	255.255.255.0
Gateway	172.16.0.1

WORKSTATION E

IP Address	172.16.0.21
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION F

IP Address	172.16.10.43
Netmask	255.255.255.0
Gateway	172.16.10.1

OK

WORKSTATION G

IP Address	172.16.10.120
Netmask	255.255.255.0
Gateway	172.16.10.1

OK

LAPTOP 1

IP Address	172.16.0.220
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

LAPTOP 2

IP Address	172.30.0.12
Netmask	255.255.255.0
Gateway	172.30.0.1

OK**DHCP SERVER 1**

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.30.0.1

DHCP Scope	172.30.0.10-250
Gateway	172.30.0.1
DNS Servers	10.200.2.20, 10.200.3.20
DHCP Lease Time	8 days

OK

DHCP SERVER 2

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.16.0.1

DHCP Scope	172.16.0.10-250
Gateway	172.16.0.1
DNS Servers	10.200.2.20, 10.200.3.20
DHCP Lease Time	8 days

Part 2

Identify the reason as to why some users are unable to access the network.

A.

Workstation(s) are plugged into switch ports configured with half duplex.

B.

The site-to-site router was configured with the incorrect ACL.

C.

DHCP server scope is full and is not providing IP addresses.

D.

WAN and LAN ports are reversed on the router.

E.

STP had disabled some of the ports on the switch.

F.

The NIC driver is not installed.

G.

A wireless client is unable to associate to the AP.

Answer: G

Explanation:

QUESTION NO: 160

Which of the following should be performed to verify that unnecessary services are disabled on all switches in an environment?

- A.**
Packet capturing
- B.**
Port scanning
- C.**
Log scanning
- D.**
Baseline review

Answer: B

Explanation:

QUESTION NO: 161

A technician is sent to a remote office to set up a device to connect to the Internet. The company standards document requires stateful inspection. Which of the following should the technician install?

- A.**
Router
- B.**
Multiplayer switch
- C.**
Firewall
- D.**
Bridge

Answer: C

Explanation:

QUESTION NO: 162

A technician is assigned to secure a basic wireless network. Which of the following authentication protocols should the technician use to perform this task? (Choose two.)

- A.**
RDP
- B.**
SNMP
- C.**
WPA2
- D.**
EAP
- E.**
SSL

Answer: C,D

Explanation:

QUESTION NO: 163

A technician is investigating the cause of a network outage. Which of the following documents should be checked to rule out configuration issues?

- A.**
Change management records
- B.**
Inventory management
- C.**
Network log files

D.
Logical diagrams

Answer: A

Explanation:

QUESTION NO: 164

A junior network technician receives a help desk ticket from an end user who is having trouble accessing a web application that was working the previous day. After talking with the end user and gathering information about the issue, which of the following would be the most likely course of action for the technician to perform NEXT?

- A.**
Establish a theory of probable cause.
- B.**
Escalate the ticket to a senior technician.
- C.**
Implement the solution.
- D.**
Document the findings and outcomes.

Answer: A

Explanation:

QUESTION NO: 165

A system administrator receives reports from users of odd behavior in regard to a recently installed server. While reviewing the server network configuration, the systems administrator does both a forward and a reverse DNS lookup on the host, along with the network adapter configuration.

```
$ host server.company.com
server.company.com has address 129.168.0.100
server.company.com is handled by 100 mail.company.com
$ host 192.168.0.100
100.0.168.192.in-addr.arpa domain name pointer web.company.com
$ host web.company.com
server.company.com has address 129.168.0.50
server.company.com is handled by 100 mail.company.com
$ ifconfig -a
eth0Link encap:Ethernet HWaddr 00:30:48:9D:06:73
inet addr:192.168.0.100 Bcast:192.168.0.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
lo0Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
UP LOOPBACK RUNNING MTU:16436 Metric:1
```

Which of the following is the problem identified in the output above?

- A.**
There is no reverse DNS entry for this host.
- B.**
The server IP address is incorrectly configured.
- C.**
The DNS lookup entry is incorrectly configured.
- D.**
The reverse DNS entry is pointing to a different host.

Answer: C

Explanation:

QUESTION NO: 166

A network technician at a small office upgrades the LAN switch. After the upgrade, a user reports being unable to access network resources. When the technician checks the switchport, the LED light is not lit. Which of the following should the technician check FIRST?

- A.**
The device is using the correct cable type.
- B.**
The switchport is functioning properly.

C.

The device is connected to the switch.

D.

The switch is connected to the router.

Answer: C

Explanation:

QUESTION NO: 167

A network administrator wants to employ a username and password authentication system for guest WiFi. Which of the following is the BEST option to provide this type of authentication?

A.

Port security

B.

MAC filtering

C.

Network access control

D.

Captive portal

Answer: D

Explanation:

QUESTION NO: 168

A technician is responsible for configuring a new firewall. The hardware team has already installed, powered, and connected the system. Which of the following types of documentation should the technician utilize to complete the task?

A.

Rack diagram

B.

IDF/MDF documentation

C.

Network performance baseline

D.

Logical and physical diagrams

Answer: D

Explanation:

QUESTION NO: 169

Which of the following storage network technologies inherently leverages block-level storage?

A.

NAS

B.

SAN

C.

FCoE

D.

iSCSI

E.

FTP

Answer: A

Explanation:

QUESTION NO: 170

Which of the following networking devices operates at Layer1?

A.

Router

- B.**
Firewall
- C.**
Hub
- D.**
Bridge

Answer: C

Explanation:

QUESTION NO: 171

A disgruntled employee decides to leak critical information about a company's new product. The employee places keyloggers on the department's computers, allowing the information to be sent out to the Internet. Which of the following attacks is occurring?

- A.**
Man-in-the-middle
- B.**
Logic bomb
- C.**
Insider threat
- D.**
Social engineering

Answer: C

Explanation:

QUESTION NO: 172

A network technician needs to set up an access method for Ann, a manager, to work from home. Ann needs to locally mapped corporate resources to perform her job. Which of the following would provide secure access to the corporate resources?

- A.**
Utilize an SSH connection to the corporate server.
- B.**
Use TFTP to transfer files to corporate resources.
- C.**
Allow RDP through an external firewall.
- D.**
Connect utilizing client-to-site VPN.

Answer: D

Explanation:

QUESTION NO: 173

Which of the following DNS record types is an alias?

- A.**
CNAME
- B.**
PTR
- C.**
NS
- D.**
SRV

Answer: A

Explanation:

QUESTION NO: 174

A recently constructed building makes use of glass and natural light. Users in the building are reporting poor cellular connectivity and speeds. Which of the following is MOST likely the cause?

- A.**

Absorption

B.

Channel overlap

C.

Reflection

D.

Frequency mismatch

Answer: C

Explanation:

QUESTION NO: 175

A network technician is working on a new switch implementation to expand the network. Which of the following is the BEST option to ensure the implementation goes according to business requirements?

A.

AUP

B.

NDA

C.

SOP

D.

SLA

Answer: C

Explanation:

QUESTION NO: 176

A technician is utilizing SNMPv3 to monitor network statistics. Which of the following actions would occur immediately of a server's utilization spikes above the prescribed value?

A.

A trap message is sent via UDP to the monitoring workstation.

B.

The SET function pushes an alert to the MIB database.

C.

The object identifier is modified and reported during the next monitoring cycle.

D.

A response message is sent from the agent to the manager.

Answer: A

Explanation:

QUESTION NO: 177

In which of the following scenarios should a technician use a cross-over cable to provide connectivity?

A.

PC to switch

B.

Switch to AP

C.

Router to switch

D.

Router to modem

E.

PC to PC

Answer: E

Explanation:

QUESTION NO: 178

802.11n clients currently have no way to connect to the network. Which of the following devices should be implemented to let the clients connect?

- A.**
Router
- B.**
Range extender
- C.**
VoIP endpoint
- D.**
Access point

Answer: D

Explanation:

QUESTION NO: 179

A network technician is setting up a new router. Since it is exposed to the public, which of the following are the BEST steps the technician should take when setting up this device? (Choose two.)

- A.**
Disable unnecessary services.
- B.**
Use private IP addresses.
- C.**
Allow remote management access.
- D.**
Disable the console port.
- E.**
Enable encryption.
- F.**
Upgrade to the latest firmware.

Answer: A,F

Explanation:

QUESTION NO: 180

A network technician is configuring user access to a VPN concentrator and has been advised to use a protocol that supports encryption over UDP. Which of the following protocols has the technician MOST likely configured for client use?

- A.**
TFTP
- B.**
DTLS
- C.**
DNS
- D.**
SNMP

Answer: B

Explanation:

QUESTION NO: 181

A switch has detected duplicate broadcast messages sourced from a second port. The broadcasts continue to be transmitted and duplicated until the amount of traffic causes severe performance issues. Which of the following should be configured to prevent this behavior?

- A.**
BPDU guard
- B.**
DHCP snooping
- C.**
ARP protection
- D.**
Spanning tree

Answer: D

Explanation:

QUESTION NO: 182

A Chief Information Officer (CIO) is concentrated about an attacker gaining administrative access to the company's network devices. Which of the following is the MOST secure way to prevent this?

- A.**
ACL allowing only HTTP
- B.**
ACL allowing only Telnet
- C.**
Out-of-band modem
- D.**
Out-of-band console router

Answer: D

Explanation:

QUESTION NO: 183

The Chief Executive Officer's (CEO's) tablet cannot connect to the wireless network from the corner office. A network technician verified the tablet can connect to the wireless network in other areas of the building. The distance between the office and the 802.11ac WAP is 150ft (46m), and there are a few cubicles in between. Which of the following is the MOST likely cause of the tablet not connecting?

- A.**
Absorption
- B.**
Reflection
- C.**
Distance

D.
Refraction

E.
Attenuation

Answer: C

Explanation:

QUESTION NO: 184

A company has two geographically separate locations that need to connect using a VPN. Which of the following devices must be specifically configured to allow VPN traffic into the network?

A.
Firewall

B.
Switch

C.
Router

D.
Modem

Answer: A

Explanation:

QUESTION NO: 185

A technician is working on a new machine that has been procured for testing and development. The machine will run a hypervisor and host several operating systems of various types so the development team can test the company's applications in a variety of environments. The technician wants the virtual machines to be available to communicate with each other without leaving the hypervisor. Which of the following is the BEST solution to the problem?

A.
The technician should connect the machine to its own separate switch.

B.

The technician should add a route in each virtual machine to the default gateway.

C.

The technician should configure a virtual switch.

D.

The technician should set up individual routes between the machines.

Answer: C

Explanation:

QUESTION NO: 186

A network technician is repurposing a switch that has been in storage for some time. The device has been wiped to factory defaults. Which of the following should be done FIRST to ensure the device has been hardened before configuration?

A.

Generate new keys.

B.

Disable unused ports.

C.

Check for updated firmware.

D.

Configure the default VLAN.

Answer: C

Explanation:

QUESTION NO: 187

A technician is setting up a wireless access point in a coffee shop. The shop is not concerned with security but only wants to allow customers to have access. Which of the following configurations should the technician deploy?

- A.**
Use a pre-shared key.
- B.**
Set up EAP.
- C.**
Configure RADIUS.
- D.**
Configure MAC filtering.

Answer: A

Explanation:

QUESTION NO: 188

A network administrator is assigned to run and connect a Cat 6e Ethernet cable between two nodes in a datacenter. Which of the following connector types should the network administrator use to terminate this cable?

- A.**
DB-9
- B.**
RS-232
- C.**
DB-25
- D.**
RJ-45

Answer: D

Explanation:

QUESTION NO: 189

Management has requested that services be available within 72 hours of a disaster. Budget is a major concern. A contract is signed with a company that has plenty of space, and the technician

will have the option of putting infrastructure equipment in place. Which of the following BEST describes this business continuity strategy?

- A.**
Cold site
- B.**
Differential backup
- C.**
Hot site
- D.**
Incremental backup
- E.**
Warm site
- F.**
Full backup

Answer: A

Explanation:

QUESTION NO: 190

A network technician is planning to update the firmware on a router on the network. The technician has downloaded the file from the vendor's website. Before installing the firmware update, which of the following steps should the technician perform to ensure file integrity?

- A.**
Perform antivirus and anti-malware scans of the file.
- B.**
Perform a hash on the file for comparison with the vendor's hash.
- C.**
Download the file a second time and compare the version numbers.
- D.**
Compare the hash of the file to the previous firmware update.

Answer: B

Explanation:**QUESTION NO: 191**

A network technician performs a wireless site survey at a company building and identifies that the cafeteria is not covered by a wireless signal. The cafeteria is located in a medium-size, square-shaped room. Which of the following types of WAP antenna should the technician install in the center of the cafeteria to provide the BEST coverage?

- A.**
Unidirectional
- B.**
Parabolic
- C.**
Omnidirectional
- D.**
Yagi

Answer: C

Explanation:**QUESTION NO: 192**

An entire enterprise cannot access a specific website. The network technician knows the website was accessible last week. The technician can also ping the website. Which of the following is the technician MOST likely to find upon investigation?

- A.**
The firewall is misconfigured.
- B.**
The network is being hit by a zero-day attack.
- C.**
The SSL certificate is untrusted.
- D.**

The SSL certificate has expired.

Answer: D

Explanation:

QUESTION NO: 193

At which of the following OSI model layers would a router operate?

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

Answer: B

Explanation:

QUESTION NO: 194

Which of the following are DNS record types? (Choose three.)

- A.**
CNAME
- B.**
NTP
- C.**
PTR
- D.**
LDAP

E.
DHCP

F.
TTL

G.
SRV

H.
SSH

Answer: A,C,G

Explanation:

QUESTION NO: 195

Which of the following backup techniques is used to capture all the data that has changed since the last full backup?

A.
Incremental

B.
Replica

C.
Differential

D.
Snapshot

Answer: C

Explanation:

QUESTION NO: 196

A network administrator frequently needs to assist users with troubleshooting network hardware remotely, but the users are non-technical and unfamiliar with network devices. Which of the following would BEST help the administrator and users during hands-on troubleshooting?

- A.**
Logical diagrams
- B.**
MDF documentation
- C.**
Equipment labeling
- D.**
Standard operating procedures

Answer: D

Explanation:

QUESTION NO: 197

A technician is observing brownout issues at a smaller office. At least once a week, the edge switch power cycles. Which of the following should the technician do to resolve the issue?

- A.**
Install a new switch
- B.**
Install a UPS
- C.**
Replace the switch uplink cable.
- D.**
Install a new electrical circuit.

Answer: B

Explanation:

QUESTION NO: 198

A technician is troubleshooting a workstation's network connectivity and wants to confirm which switchport corresponds to the wall jack the PC is using. Which of the following concepts would BEST help the technician?

- A.**
Consistent labeling
- B.**
Change management
- C.**
Standard work instructions
- D.**
Inventory management
- E.**
Network baseline

Answer: A

Explanation:

QUESTION NO: 199

Under which of the following layers of the OSI model do ATM cells operate?

- A.**
Data link
- B.**
Network
- C.**
Session
- D.**
Transport
- E.**
Presentation

Answer: A

Explanation:

QUESTION NO: 200

A new building needs to be joined to an existing network, but management has decided that running fiber is too expensive. Since the buildings are about 1000ft (305m) apart, the IT department has been asked to propose alternatives. Which of the following is the BEST device to add to each building to facilitate the extension of the network while meeting budgetary demands?

- A.**
Switch
- B.**
Router
- C.**
Media converter
- D.**
PRP wireless

Answer: D

Explanation:

QUESTION NO: 201

A junior network technician is working in the field and needs to connect to the company's remote server, however, doing so will require the junior technician to use the public Internet. Because security is a concern, which of the following is the BEST method to use?

- A.**
Telnet
- B.**
SSH
- C.**
SFTP
- D.**
VNC

Answer: B

Explanation:

QUESTION NO: 202

A home user has purchased a new smart TV to stream online video services. The smart TV is unable to connect to the wireless network after several attempts. After returning from vacation, the home user tries again and can connect the TV to the wireless network. However, the user notices a laptop is no longer able to connect to the network. Which of the following is the MOST likely cause?

- A.**
The DHCP scope has been exhausted.
- B.**
The security passcode has been changed.
- C.**
The SSID is hidden.
- D.**
The AP configuration was reset.

Answer: A

Explanation:

QUESTION NO: 203

A security guard notices an authorized individual, who is dressed like a lab technician, has entered a secure area of the hospital with a large group. Which of the following security attacks is taking place?

- A.**
Evil twin
- B.**
Social engineering
- C.**
Insider threat
- D.**
Phishing

Answer: B

Explanation:

QUESTION NO: 204

Which of the following DNS record types allows IPv6 records to be resolved to DNS names?

- A.**
PTR
- B.**
A
- C.**
AAAA
- D.**
SRV

Answer: C

Explanation:

QUESTION NO: 205

A network technician has recently installed new VoIP phones at all employee's desks to support a new SIP cloud VoIP solution. However, the technician is unable to make a call from the device after testing. Which of the following should the technician verify? (Choose two.)

- A.**
TCP 443 is allowed.
- B.**
UDP 1720 is allowed.
- C.**
UDP 5060 is allowed.
- D.**
UDP 5061 is allowed.
- E.**
TCP 8080 is allowed.

F.

TCP 8181 is allowed.

Answer: C,D

Explanation:

QUESTION NO: 206

Which of the following would allow a network technician to access files on a remote system?
(Choose two.)

A.

FTP

B.

TFTP

C.

VLSM

D.

SIP

E.

SMTP

F.

IMAP

Answer: A,B

Explanation:

QUESTION NO: 207

Which of the following provides two-factor authentication?

A.

Username + password

B.

Smart card + PIN

C.

Fingerprint + retina scan

D.

Key fob + ID card

Answer: B

Explanation:

QUESTION NO: 208

A technician set up a new SOHO network recently. The installed router has four Ethernet ports, however, the customer has seven devices that need wired connections. Which of the following should the technician do to BEST meet the customer's requirements?

A.

Install a six-port switch.

B.

Configure port forwarding on the router.

C.

Install WAPs near the devices.

D.

Configure the switchports as EtherChannel ports.

Answer: A

Explanation:

QUESTION NO: 209

A technician is performing a maintenance task on a weekly basis and wants to ensure the task is properly documented and able to be performed by other technicians. Which of the following types of documentation should the technician complete?

A.

Standard operating procedure

B.

Work order

C.

Performance baseline

D.

Logical diagram

E.

Change management

Answer: A

Explanation:

QUESTION NO: 210

A company is allowing its employees to use their personal computers, tablets, and IoT devices while at work. However, there are rules and guidelines to which employees must adhere. Which of the following documents applies to these employees?

A.

NDA

B.

SOP

C.

BYOD

D.

SLA

Answer: C

Explanation:

QUESTION NO: 211

Which of the following are characteristics of jumbo frames? (Choose two.)

- A.**
Commonly used on SAN
- B.**
MTU size greater than 1500
- C.**
MTU size greater than 10000
- D.**
Commonly used on IaaS
- E.**
MTU size greater than 12000

Answer: A,B

Explanation:

QUESTION NO: 212

A network administrator gets a call regarding intermittent network outages across the country. Which of the following should be used to connect to the network so the administrator can troubleshoot this issue from home? (Choose two.)

- A.**
FTP
- B.**
SMTP
- C.**
VPN
- D.**
SSH
- E.**
SNMP

Answer: C,D

Explanation:

QUESTION NO: 213

A network technician downloaded new firmware for the company firewall. Which of the following should the network technician verify to ensure the downloaded file is correct and complete?

- A.**
File hash
- B.**
File date
- C.**
File type
- D.**
File size

Answer: A

Explanation:

QUESTION NO: 214

A technician is troubleshooting network connectivity issues with a remote host. Which of the following tools would BEST inform the technician of nodes between the client and the remote host? (Choose two.)

- A.**
tracert
- B.**
ping
- C.**
tcpdump
- D.**
pathping
- E.**
netstat

F.
nslookup

G.
route

Answer: A,D

Explanation:

QUESTION NO: 215

Which of the following will listen on the line to ensure there is no traffic transmitting and implement a back-off timer if a collision occurs?

A.
CSMA/CD

B.
CSMA/CA

C.
MPLS

D.
OSPF

Answer: A

Explanation:

QUESTION NO: 216

A network technician receives a call from a branch office about a problem with its wireless connectivity. The user states the office is hosting a large meeting that includes some online training with local businesses. The guest users have all brought devices to connect to the guest network at the branch office. All users are connected to a single WAP and are reporting that connections keep dropping and network speeds are unusable. Which of the following is the MOST likely cause of this issue?

A.

DHCP exhaustion

B.

Channel overlapping

C.

Interference

D.

Overcapacity

Answer: D

Explanation:

QUESTION NO: 217

Which of the following BEST describes an exploit?

A.

A router with default credentials

B.

An open mail relay server

C.

An SNMPv1 private community

D.

A privilege escalation script

Answer: D

Explanation:

QUESTION NO: 218

A server in a LAN was configured to act as a gateway between all company computers and an external network. Which of the following networking devices offers the ability to increase both performance and security?

A.

Load balancer

B.

IDS

C.

Proxy server

D.

Wireless controller

Answer: C

Explanation:

QUESTION NO: 219

A technician is setting up VoIP phones on a wireless network. Users report that calls are choppy and sometimes dropped. The technician has measured two characteristics using simple command-line tools that verify the problem. Which of the following characteristics did the technician measure? (Choose two.)

A.

Reflection

B.

Latency

C.

Interference

D.

Packet loss

E.

Signal-to-noise ratio

F.

Attenuation

Answer: B,D

Explanation:

QUESTION NO: 220

Which of the following ports should a network technician open on a firewall to back up the configuration and operating system files of a router to a remote server using the FASTEST method possible?

- A.**
UDP port 22
- B.**
TCP port 22
- C.**
TCP port 25
- D.**
UDP port 53
- E.**
UDP port 69

Answer: E

Explanation:

QUESTION NO: 221

A technician is replacing a failed SOHO router for a customer who has an existing switch, cable modem, and static IP address. The user has a web server that faces the Internet so users can visit and leave comments. Which of the following BEST describes the correct configuration for this customer's requirements?

- A.**
The modem is placed in bridge mode, the router is placed behind the modem, and the web server is placed behind the router.
- B.**
The router is placed in bridge mode, the modem is placed behind the router, and the web server is placed behind the modem.
- C.**
The web server is placed in bridge mode, the router is placed behind the web server, and the modem is placed behind the router.
- D.**

The switch is placed in bridge mode, the modem is placed behind the router, and the router is placed behind the modem.

Answer: A

Explanation:

QUESTION NO: 222

A network technician is attempting to troubleshoot a connectivity issue. The issue is only reported during the evening hours, and only a single workstation loses connectivity. Which of the following is the MOST likely cause of the issue?

A.

The router has a time-based ACL, applied for the network segment.

B.

A light source is creating EMI interference, affecting the UTP cabling.

C.

Nightly backups are consuming excessive bandwidth.

D.

The user has violated the AUP, and Internet access has been restricted.

Answer: D

Explanation:

QUESTION NO: 223

A network administrator is redesigning network security after an attack. During the attack, an attacker used open cubicle locations to attach devices to the network. The administrator wants to be able to monitor future attacks in a safe environment and determine the method of attack. Which of the following should the administrator do to BEST meet this requirement?

A.

Create a VLAN for the unused ports and create a honeypot on the VLAN.

B.

Install a BPDU guard on switchports and enable STP.

C.

Create a DMZ for public servers and secure a segment for the internal network.

D.

Install antivirus software and set an ACL on the servers.

Answer: A

Explanation:

QUESTION NO: 224

A company has just refreshed the hardware in its datacenter with new 10G Ethernet switches. A technician wishes to set up a new storage area network but must use existing infrastructure. Which of the following storage standards should the technician use?

A.

iSCSI

B.

Fibre Channel

C.

NAS

D.

InfiniBand

Answer: C

Explanation:

QUESTION NO: 225

A network technician needs to install a new access switch. After installing the new switch, the technician begins to move connections from the old switch to the new switch. The old switch used a GBIC with SC connectors, and the new switch uses an SFP with LC connectors. After connecting the SC connector to the SC-to-LC adapter and plugging it into the switch, the link does not come up as expected. Which of the following should a network technician perform NEXT?

A.

Replace SFP with a new one.

B.

Fall back to the old switch.

C.

Transpose the fiber pairs.

D.

Replace multimode with single-mode cable.

Answer: C

Explanation:

QUESTION NO: 226

A network technician is installing a new SOHO branch office that requires the use of a DOCSIS-compatible modem. The modem needs to be connected to the ISP's network at the demarc. Which of the following cable types should be used?

A.

UTP

B.

Multimode

C.

Coaxial

D.

Serial

Answer: C

Explanation:

QUESTION NO: 227

A technician needs to order cable that meets 10GBaseT and fire safety requirements for an installation between a drop ceiling and a standard ceiling. Which of the following should the technician order to ensure compliance with the requirements?

- A.**
PVC Cat 5
- B.**
Plenum Cat 5e
- C.**
Plenum Cat 6a
- D.**
PVC Cat 7

Answer: C

Explanation:

QUESTION NO: 228

Which of the following physical security devices is used to detect unauthorized server room access?

- A.**
Access badge
- B.**
Biometrics
- C.**
Smart card
- D.**
Video surveillance

Answer: D

Explanation:

QUESTION NO: 229

A network technician recently installed a new server on a network. The technician must ensure the server does not have any unnecessary services running. The IP address of the server is 204.211.38.50. Which of the following commands would allow the technician to make this

determination?

- A.**
nmap
- B.**
pathping
- C.**
route
- D.**
nslookup

Answer: A

Explanation:

QUESTION NO: 230

Joe, an employee at a large regional bank, wants to receive company email on his personal smartphone and tablet. To authenticate on the mail server, he must first install a custom security application on those mobile devices. Which of the following policies would BEST enforce this requirement?

- A.**
Incident response policy
- B.**
BYOD policy
- C.**
DLP policy
- D.**
Remote access policy

Answer: B

Explanation:

QUESTION NO: 231

A technician is allocating the IP address space needed for a new remote office. This office will contain the engineering staff with six employees and the digital marketing staff with 55 employees. The technician has decided to allocate the 192.168.1.0/24 block to the remote office. The engineering staff has been allocated the 192.168.1.64/29 subnet. Using the LEAST amount of space possible, which of the following would be the last usable IP address in the engineering subnet?

- A.
192.168.1.62
- B.
192.168.1.63
- C.
192.168.1.70
- D.
192.168.1.71

Answer: A

Explanation:

QUESTION NO: 232

An administrator is troubleshooting a user's intermittent wireless connectivity issue. Other users across the hallway can connect and use the wireless network properly. Upon inspection of the connection details, the administrator finds the following:

SSID	Company-WiFi
Signal	5%
SNR	2

Which of the following is MOST likely the cause of the poor wireless connection?

- A.
Channel overlap
- B.
Overcapacity
- C.
Incorrect antenna type

D.
Latency

Answer: C
Explanation:

QUESTION NO: 233

A VoIP system will require 23 concurrent voice channels and one signaling channel. Which of the following types of WAN service would provide the BEST connectivity to the PSTN?

- A.**
PRI
- B.**
BRI
- C.**
E1/E3
- D.**
DSL

Answer: A
Explanation:

QUESTION NO: 234

A network administrator is going to be performing a major upgrade to the network. Which of the following should the administrator use in case of a failure?

- A.**
Baseline report
- B.**
Vulnerability report
- C.**
Rollback plan

D.
Business continuity plan

Answer: C

Explanation:

QUESTION NO: 235

A web application is unable to authenticate customers so they can access their bills. The server administrator has tested the LDAP query but is not receiving results. Which of the following is the NEXT step the server administrator should take to correct the problem?

A.
Check port 636 to see if it is being blocked.

B.
Change service port 636 to port 389.

C.
Restart the web server.

D.
Verify the browser is using port 443.

Answer: A

Explanation:

QUESTION NO: 236

Which of the following is networking stand-alone hardware that will permit any WiFi-compliant device to connect to a wired network?

A.
Wireless hub

B.
Wireless firewall

C.

Wireless access point

D.

Wireless bridge

Answer: C

Explanation:

QUESTION NO: 237

Which of the following devices are MOST often responsible for 802.1q tagging? (Choose two.)

A.

Switch

B.

Router

C.

IDS

D.

Hub

E.

IPS

F.

Network tap

Answer: A,B

Explanation:

QUESTION NO: 238

A network technician is installing a new wireless network in a small office. Due to environmental concerns, the customer wants the network to run exclusively on the 5GHz frequency. Which of the following wireless technologies should the technician install to BEST meet this requirement? (Choose two.)

- A.**
802.11ac
- B.**
802.11b
- C.**
802.11g
- D.**
802.11n
- E.**
Bluetooth
- F.**
Z-Wave

Answer: A,D

Explanation:

QUESTION NO: 239

Which of the following concepts would BEST describe when a company chooses to use a third-party vendor to host and administer a critical application?

- A.**
SaaS
- B.**
IaaS
- C.**
PaaS
- D.**
CASB

Answer: C

Explanation:

QUESTION NO: 240

A content filter is set to analyze XML and JSON that users access from the Internet. At which of the following layers is this analysis taking place?

A.

1

B.

3

C.

5

D.

7

E.

6

Answer: E

Explanation:

QUESTION NO: 241

Ann, a new employee within a department, cannot print to any of the printers in the department or access any of the resources that others can. However, she can access the Internet. The network engineer has confirmed that Ann's account has been set up the same as the others. There are no access lists restricting Ann's access. Which of the following could be the issue for this lack of access?

A.

Duplex/speed mismatch

B.

VLAN mismatch

C.

DNS server issue

D.

DHCP server issue

E.

Spanning tree blocked ports

Answer: B

Explanation:

QUESTION NO: 242

A technician is configuring a printer for a client. The technician connects the printer to the network, but is unsure how to determine its switchport. Which of the following should the technician do FIRST to locate the switchport?

- A.**
Perform a DNS lookup on the server.
- B.**
Set up an SSH session to the desktop.
- C.**
Reference the ARP table in the router.
- D.**
Configure port security on the switch.

Answer: C

Explanation:

QUESTION NO: 243

A router is set up to utilize RIPv2 to route traffic throughout the network. Which of the following routing metrics is used to determine the path?

- A.**
Distance
- B.**
Bandwidth
- C.**
Speed

D.
Hop count

Answer: D

Explanation:

QUESTION NO: 244

A second router was installed on a network to be used as a backup for the primary router that works as a gateway. The infrastructure team does not want to change the IP address of the gateway on the devices. Which of the following network components should be used in this scenario?

A.
Loopback IP

B.
Virtual IP

C.
Reserved IP

D.
Public IP

Answer: B

Explanation:

QUESTION NO: 245

Which of the following can be done to implement network device hardening? (Choose two.)

A.
Implement spanning tree

B.
Perform VLAN hopping

C.

Patch and update

D.

Perform backups

E.

Enable port mirroring

F.

Change default admin password

Answer: C,F

Explanation:

QUESTION NO: 246

A critical vulnerability is discovered on a network device. The vendor states it has already patched this vulnerability in its current release. Which of the following actions should an administrator take?

A.

Change the default password

B.

Use a firewall in front of the device.

C.

Update the firmware.

D.

Upgrade the configuration.

Answer: C

Explanation:

QUESTION NO: 247

A technician has been alerted of incoming HTTP traffic on the LAN segment that should not contain any web servers. The technician has the IP address of the destination host and wants to determine if the socket for HTTP is open. Which of the following should the technician perform?

- A.**
Baseline assessment
- B.**
Packet analysis
- C.**
Port scan
- D.**
Patch-level assessment

Answer: C

Explanation:

QUESTION NO: 248

Which of the following creates a secure remote connection at the OSI network layer?

- A.**
L2TP
- B.**
SSL
- C.**
DTLS
- D.**
IPSec

Answer: D

Explanation:

QUESTION NO: 249

A network technician has salvaged several Ethernet cables from a datacenter. The technician attempts to use the cables to connect desktops to the network without success. Which of the following is MOST likely the issue?

A.

The cables have an incorrect pin-out.

B.

The cables are UTP instead of STP.

C.

The cables are Cat 6 instead of Cat 5.

D.

The cables are not plenum rated.

Answer: A

Explanation:

QUESTION NO: 250

A company decides to deploy customer-facing, touch-screen kiosks. The kiosks appear to have several open source service ports that could potentially become compromised. Which of the following is the MOST effective way to protect the kiosks?

A.

Install an IDS to monitor all traffic to and from the kiosks.

B.

Install honeypots on the network to detect and analyze potential kiosk attacks before they occur.

C.

Enable switchport security on the ports to which the kiosks are connected to prevent network-level attacks.

D.

Create a new network segment with ACLs, limiting kiosks' traffic with the internal network.

Answer: D

Explanation:

QUESTION NO: 251

While working on a Linux-based OS, a technician experiences an issue accessing some servers

and some sites by name. Which of the following command-line tools should the technician use to assist in troubleshooting?

- A.**
dig
- B.**
iptables
- C.**
ifconfig
- D.**
traceroute

Answer: A

Explanation:

QUESTION NO: 252

A network administrator has had difficulty keeping track of IP address assignments on networking devices and clients recently. Which of the following is the BEST technology to aid in this scenario?

- A.**
DNS
- B.**
DHCP
- C.**
IPAM
- D.**
NTP

Answer: C

Explanation:

QUESTION NO: 253

A technician is surveying a college's network equipment rooms and connectivity. Which of the following types of documentation does the technician need to perform a detailed site survey? (Choose three.)

- A.**
IDF/MDF documentation.
- B.**
Cable run label documentation.
- C.**
Network configuration documentation.
- D.**
Performance baseline documentation.
- E.**
Standard operating procedure documentation.
- F.**
Change management documentation.
- G.**
Rack diagram documentation.

Answer: A,C,G

Explanation:

QUESTION NO: 254

A technician is connecting a PC to a switchport. At the wiring closet, the technician is unable to identify which cable goes from patch panel A connected to the switch to patch panel B connected to the PC. Which of the following tools should the technician use to resolve the issue?

- A.**
Cable tester
- B.**
Multimeter
- C.**
Tone generator
- D.**
OTDR

Answer: C

Explanation:

QUESTION NO: 255

A technician wants to deploy a network that will require wireless client devices to prompt for a username and password before granting access to the wireless network. Which of the following must be configured to implement this solution?

- A.**
EAP-PEAP
- B.**
CCMP-AES
- C.**
WPA2-PSK
- D.**
TKIP-RC4

Answer: A

Explanation:

QUESTION NO: 256

Which of the following protocols are classified as connectionless? (Choose two.)

- A.**
TFTP
- B.**
FTP
- C.**
HTTP
- D.**
SNMP

E.
SSH

F.
IMAP

Answer: A,D

Explanation:

QUESTION NO: 257

Users in a school lab are reporting slow connections to the servers and the Internet. Other users in the school have no issues. The lab has 25 computers and is connected with a single 1Gb Ethernet connection on Cat 5e wiring to an unmanaged switch. There are also three spare Cat 5e cable runs, which are not in use. The school wants to double the connection speed between the lab and the servers without running new cables. Which of the following would be the BEST solution?

A.
Plug in a second spare cable at each end to double the speed.

B.
Replace the switches with ones that utilize port bonding and use the spare cables.

C.
Replace the switches with 10Gb switches and utilize the existing cabling.

D.
Plug in a second cable and set one port to TX and one port to RX.

Answer: B

Explanation:

QUESTION NO: 258

A technician is downloading an ISO from a vendor's website. To ensure the integrity of the download, which of the following should be verified?

A.
File size

- B.**
Vendor URL
- C.**
File hashing
- D.**
Encryption

Answer: C

Explanation:

QUESTION NO: 259

An administrator wants to implement an additional authentication factor to the remote SSH servers. Which of the following accomplishes this goal with the principle of “something you have”?

- A.**
Certificate
- B.**
Pattern
- C.**
Password
- D.**
Fingerprint

Answer: A

Explanation:

QUESTION NO: 260

A junior technician is setting up a voice control device so the Chief Executive Officer (CEO) will be able to control various things in the office. Of which of the following types of IoT technologies is this an example?

- A.**

LAN

B.

WAN

C.

SAN

D.

PAN

Answer: D

Explanation:

QUESTION NO: 261

Users on a LAN segment are reporting a loss of connectivity to network services. The client PCs have been assigned with 169.254.X.X IP addresses. Which of the following IP address schemas is being utilized?

A.

Private IP

B.

Static IP

C.

APIPA

D.

Loopback

Answer: C

Explanation:

QUESTION NO: 262

A network administrator has created a new VLAN for the server and clients within the accounting department and wants to outline how it integrates with the existing network. Which of the following should the administrator create?

- A.**
Logical diagram
- B.**
Physical diagram
- C.**
Rack diagram
- D.**
Configuration diagram

Answer: A

Explanation:

QUESTION NO: 263

Which of the following would indicate that a circuit speed should be increased?

- A.**
Low latency
- B.**
Low bandwidth consumption
- C.**
High number of SIEM alerts
- D.**
High packet drops

Answer: D

Explanation:

QUESTION NO: 264

A technician has installed an older IP camera as a temporary replacement for a recently failed newer one. The technician notices that when the camera's video stream is off, the ping roundtrip time between the camera and the network DVR is consistently less than 1ms without dropped packets. When the camera video stream is turned on, the ping roundtrip time increases

dramatically, and network communication is slow and inconsistent. Which of the following is MOST likely the issue in this scenario?

- A.**
VLAN mismatch
- B.**
Duplex mismatch
- C.**
Cat 6 RX/TX reversed
- D.**
Damaged cable

Answer: B

Explanation:

QUESTION NO: 265

Wireless users have been experiencing connectivity problems. Investigation shows neighboring wireless appliances, which are not connected to the network, have been on the same 5GHz frequency to communicate. Which of the following wireless performance problem concepts defines this issue?

- A.**
Interference
- B.**
Distance limitation
- C.**
Signal-to-noise ratio
- D.**
Absorption

Answer: A

Explanation:

QUESTION NO: 266

Which of the following BEST explains the purpose of signature management as a mitigation technique?

- A.**
Hardening devices
- B.**
Segmenting the network
- C.**
Detecting malicious activity
- D.**
Restricting user credentials

Answer: C

Explanation:

QUESTION NO: 267

A network technician installs a web server on the firewall. Which of the following methods should the technician implement to allow access to outside users without giving access to the inside network?

- A.**
VLAN
- B.**
DMZ
- C.**
SNMP
- D.**
NTP

Answer: B

Explanation:

QUESTION NO: 268

A Chief Information Officer (CIO) tasks the network engineer with protecting the network from outside attacks. Placing which of the following devices on the network perimeter would provide the MOST security for the system?

- A.**
Firewall
- B.**
NGFW
- C.**
Content filter
- D.**
IDS/IPS

Answer: B

Explanation:

QUESTION NO: 269

Management has requested that a wireless solution be installed at a new office. Which of the following is the FIRST thing the network technician should do?

- A.**
Order equipment
- B.**
Create network diagrams
- C.**
Perform a site survey
- D.**
Create an SSID.

Answer: C

Explanation:

QUESTION NO: 270

A technician has deployed an additional DHCP server for redundancy. Clients in certain subnets are not receiving DHCP leases from the new DHCP server. Which of the following is the MOST likely cause?

- A.**
The new DHCP server's IP address was not added to the router's IP helper list.
- B.**
The new DHCP server is not receiving the requests from the clients.
- C.**
The ARP cache of the new DHCP server needs to be updated.
- D.**
The ARP table on the router needs to be cleared.

Answer: A

Explanation:

QUESTION NO: 271

Greater bandwidth and availability are required between two switches. Each switch has multiple 100Mb Ethernet ports available. Which of the following should a technician implement to help achieve these requirements?

- A.**
Spanning tree
- B.**
Clustering
- C.**
Power management
- D.**
Port aggregation

Answer: D

Explanation:

QUESTION NO: 272

A technician is configuring a new server with an IP address of 10.35.113.47 on the 10.35.112.0 subnet to allow for the maximum number of hosts. When configuring network settings, which of the following is the correct subnet mask?

- A.**
10.35.112.0/30
- B.**
10.35.112.0/24
- C.**
255.255.240.0
- D.**
255.255.248.0
- E.**
255.255.255.0

Answer: C

Explanation:

QUESTION NO: 273

Ann, a customer, recently upgraded her SOHO Internet to gigabit fiber from cable. She was previously getting speeds around 75Mbps down and 25Mbps up. After the upgrade, Ann runs a speed test on her desktop and gets results of 1000Mbps down and 100Mbps up. A technician connects directly to the router and sees the correct 1000Mbps speeds. Which of the following is MOST likely the cause? (Select two).

- A.**
All ports should be configured for full duplex.
- B.**
There is a 10/100 switch on the network.
- C.**
The connections are using Cat 5 cable.

D.

The connections are using Cat 6 cable.

E.

There is a transceiver mismatch at the fiber termination point.

F.

Signal attenuation on the new fiber has reached the upper limits.

Answer: A,C

Explanation:

QUESTION NO: 274

A user reports intermittent performance issues on a segment of the network. According to the troubleshooting methodology, which of the following steps should the technician do NEXT after collecting initial information from the customer?

A.

Document findings, actions, and outcomes.

B.

Establish a theory of probable cause.

C.

Establish a plan of action to resolve the problem.

D.

Duplicate the problem, if possible.

Answer: D

Explanation:

QUESTION NO: 275

Which of the following protocols is associated with a three-way handshake?

A.

UDP

- B.**
ICMP
- C.**
GRE
- D.**
TCP

Answer: D

Explanation:

QUESTION NO: 276

Which of the following would a company place at the edge of its network if it wants to view and control which Internet applications are being used?

- A.**
VPN concentrator
- B.**
NGFW
- C.**
IDS/IPS
- D.**
Proxy server

Answer: B

Explanation:

QUESTION NO: 277

A technician wants to physically connect two office buildings' networks. The office buildings are located 600ft (183m) apart. Which of the following cable types is the BEST choice?

- A.**
Cat 5e

- B.**
Cat 6a
- C.**
Multimode
- D.**
Coaxial

Answer: C

Explanation:

QUESTION NO: 278

A network engineer at a multinational company is asked to purchase mobile phones for senior executives who often travel internationally. The executives want their phones to work with wireless carriers in multiple countries when they travel. Which of the following cellular standards should these new phones support?

- A.**
GSM
- B.**
TDM
- C.**
CDMA
- D.**
PSTN

Answer: A

Explanation:

QUESTION NO: 279 DRAG DROP

You are tasked with creating a network that will accomplish the following requirements.

Requirements:

The remote Sales Team must be able to connect to the corporate network.

Each department must have ONLY two PCs and a server.

Each department must be segmented from each other.

The following VLANs have been designed:

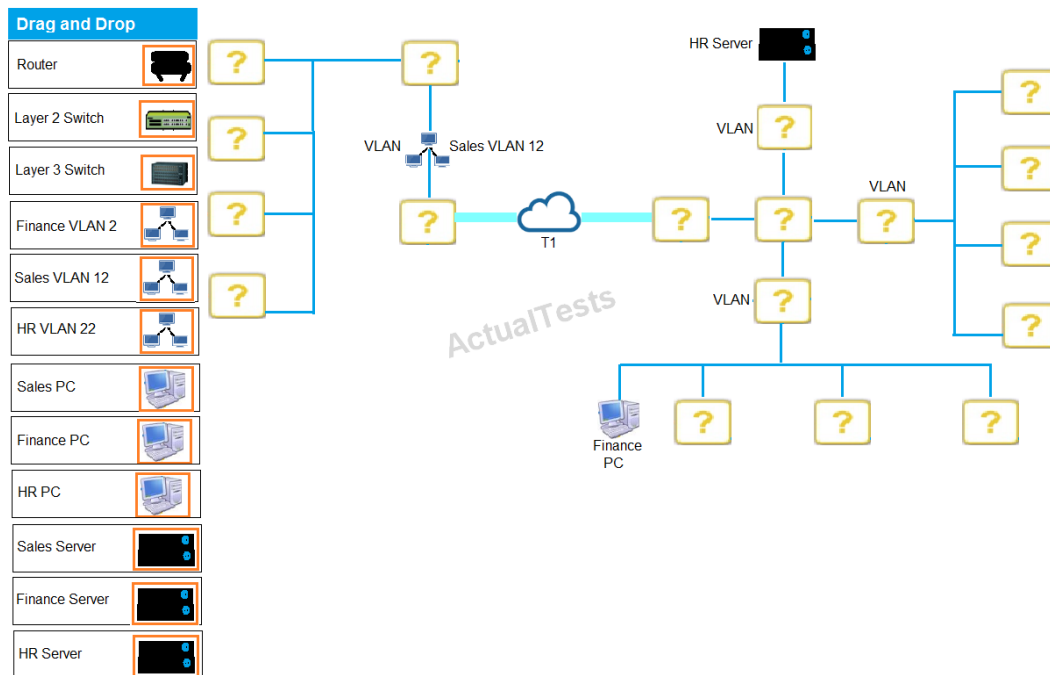
Routing for VLAN 12 is implemented on the router. Routing for VLAN 2 and VLAN 22 is on the switch.

Instructions

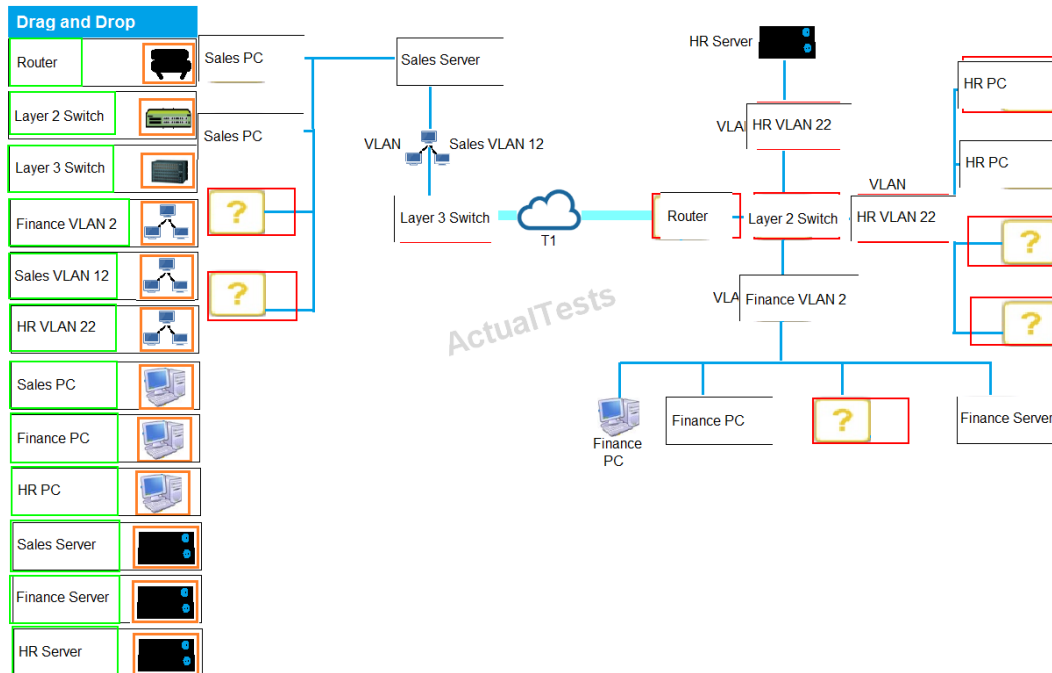
Complete the network by dragging the required objects onto the diagram.

Objects can be used multiple times and not all placeholders need to be filled.

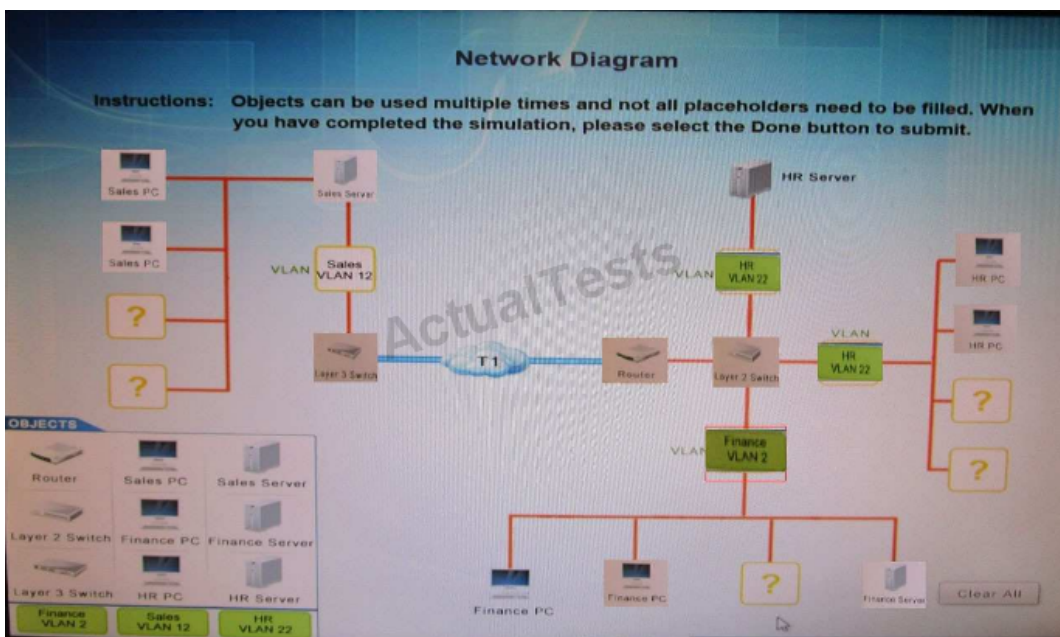
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



Answer:



Explanation:



QUESTION NO: 280

Which of the following should a network administrator use to configure Layer 3 routes? (Select TWO).

- A. Multilayer switch
- B. Firewall

- C.**
Hub
- D.**
Bridge
- E.**
Modem
- F.**
Media converter

Answer: A,B

Explanation:

QUESTION NO: 281

While logged into a financial application, a user gets errors when trying to write to the database. The network administrator is not familiar with the application and how it communicates with the database. Which of the following documentation types should the network administrator use to troubleshoot the data flow?

- A.**
Logical diagram
- B.**
Physical diagram
- C.**
Network baseline
- D.**
Change management log

Answer: A

Explanation:

QUESTION NO: 282

Joe, a network engineer, is attempting to install wireless in a large work area. He installs the

access point in the middle of the work space. When testing, he notices a -60dB reading on one side of the room and a -92dB reading on the other side. Which of the following is MOST likely the issue?

- A.**
External interference
- B.**
Distance limitations
- C.**
Channel overlap
- D.**
Incorrect antenna type

Answer: D

Explanation:

QUESTION NO: 283

A network technician wants to address PCs on a subnet with IPv6 in addition to IPv4. The subnet currently uses a DHCP server that only supports IPv4. Which of the following should the technician use to assign IPv6 addresses automatically without DHCP?

- A.**
APIPA
- B.**
MAC reservations
- C.**
EUI-64
- D.**
IPv4 to IPv6 tunnel

Answer: C

Explanation:

QUESTION NO: 284

A technician is establishing connectivity through a VPN for remote server access. Which of the following protocols should be utilized to configure this VPN connection securely?

- A.**
IPSec
- B.**
IGRP
- C.**
L2TP
- D.**
PPTP

Answer: A

Explanation:

QUESTION NO: 285

A network technician receives a request for a disaster recovery solution. Management has requested no downtime in the event of a disaster. Which of the following recovery solutions is the appropriate choice?

- A.**
Hot site
- B.**
Business continuity
- C.**
File backups
- D.**
Virtual snapshot

Answer: B

Explanation:

QUESTION NO: 286

A network technician receives a new firmware update for a network device. The technician wants to ensure the file has not been tampered with. Which of the following techniques should the technician use to ensure the integrity of the file?

- A.**
Cyclic redundancy check
- B.**
System integrity check
- C.**
Hash comparison
- D.**
Root guard

Answer: C

Explanation:

QUESTION NO: 287

An AP is configured to authenticate clients by using their Active Directory username and password. The AP uses UDP to connect to the authentication service, which then queries Active Directory. Which of the following authentication services is being used by the AP in this scenario?

- A.**
RADIUS
- B.**
TACACS+
- C.**
LDAP
- D.**
Kerberos

Answer: A

Explanation:

QUESTION NO: 288

Which of the following should be configured on the network to achieve performance for the FCoE storage traffic?

- A.**
PoE
- B.**
DHCP snooping
- C.**
Jumbo frames
- D.**
Virtual IP

Answer: C

Explanation:

QUESTION NO: 289

A network administrator wants to narrow the scope of a subnet to two usable IP addresses within a class C network. Which of the following is the correct CIDR notation?

- A.**
10.10.50.0/30
- B.**
172.16.20.0/30
- C.**
192.1.0.124/30
- D.**
192.168.0.192/24
- E.**
192.170.10.0/24

Answer: C

Explanation:

QUESTION NO: 290

A network technician notices that most of the nodes in the 10.10.74.0/23 address space return either 1 or 2 node hop after running a tracert, however, some of the new servers are showing a hop count larger than 10. Which of the following is the MOST likely reason for this?

- A.**
New servers are being provisioned in the cloud.
- B.**
Those servers have host-based firewalls.
- C.**
Some of the servers are configured to use different gateways.
- D.**
Part of the subnet is configured to use different VLANs.

Answer: A

Explanation:

QUESTION NO: 291

A technician has a remote site that often has congestion issues. When this happens, the remote router cannot be managed using SSH because the session drops. Which of the following is a possible solution to the issue?

- A.**
Out-of-band management
- B.**
HTTPS management URL
- C.**
Client-to-site VPN
- D.**
Router ACL

Answer: A

Explanation:

QUESTION NO: 292

A technician has installed multiple new PC clients and is connecting them to the network. Only one client is receiving IP addressing information. Which of the following should the technician verify as the NEXT troubleshooting step?

- A.**
DHCP scope
- B.**
DHCP lease
- C.**
Default gateway
- D.**
DNS zone

Answer: A

Explanation:

QUESTION NO: 293

Which of the following WAN technologies swaps the header on a packet when internally switching from one provider router to another?

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

Answer: C

Explanation:

QUESTION NO: 294

A network administrator is purchasing a mobile phone for a manager who is traveling internationally. The phone needs to be able to make and receive calls in multiple countries outside of North America. Which of the following cellular technologies should the administrator look for in the phone?

- A.**
CDMA
- B.**
GSM
- C.**
TDMA
- D.**
CSMA

Answer: B

Explanation:

QUESTION NO: 295

A network administrator is downloading a large patch that will be uploaded to several enterprise switches simultaneously during the day's upgrade cycle. Which of the following should the administrator do to help ensure the upgrade process will be less likely to cause problems with the switches?

- A.**
Confirm the patch's MD5 hash prior to the upgrade.
- B.**
Schedule the switches to reboot after an appropriate amount of time.
- C.**
Download each switch's current configuration before the upgrade.

D.

Utilize FTP rather than TFTP to upload the patch.

Answer: C

Explanation:

QUESTION NO: 296

A network technician is segmenting network traffic into various broadcast domains. Which of the following should the network technician utilize?

A.

VLAN

B.

STP

C.

ACL

D.

BPDU

Answer: A

Explanation:

QUESTION NO: 297

After rebooting a PC, a user is no longer able to connect to the corporate network. As a test, the technician plugs a different laptop into the same network jack and receives an IP address of 169.254.112.137. Which of the following is MOST likely causing the issue?

A.

DHCP scope exhaustion

B.

Improper DNS setting

C.

Incorrect ACL setting

D.

Port-security violation

Answer: A

Explanation:

QUESTION NO: 298

A network administrator is concerned about clients being able to access the local Internet while connected to the corporate VPN. Which of the following should be disabled on the client to prevent this?

A.

TLS

B.

Remote file access

C.

Split tunneling

D.

HTTPS

Answer: C

Explanation:

QUESTION NO: 299

A network technician travels to a remote office to set up a new SOHO for the company. Wireless networking should be used at the remote office. The network technician sets up all the related wireless network equipment, and the last step is to connect the users' devices to the company network. To complete this step, which of the following should be used to secure the remote network location?

A.

Host-based firewalls

- B.**
WPA2/WPA
- C.**
Open access
- D.**
Port filtering

Answer: B

Explanation:

QUESTION NO: 300

The length of an IPv6 address is:

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

Answer: C

Explanation:

QUESTION NO: 301

A network technician is troubleshooting a problem with a user's client-to-site VPN connection. The user is unable to establish a connection to the server, but the error message that appears on screen does not contain useful information. Which of the following should the technician do NEXT to troubleshoot the issue?

- A.**

Reconfigure the user's VPN connection in the router to fix profile corruption.

B.

Inform the user that provisioning sometimes fails and the connection needs to be attempted again.

C.

Review the logs in the VPN client to check for any informational messages.

D.

Verify the system has the latest OS patches installed.

Answer: C

Explanation:

QUESTION NO: 302

Management requires remote access to network devices when the ISP is down. Which of the following devices would provide the BEST solution?

A.

Router

B.

Firewall

C.

Bridge

D.

Modem

Answer: D

Explanation:

QUESTION NO: 303

A network technician installed a new host on the network. The host is not connecting to the company's cloud servers. The technician attempts to ping a server using the AP address with no success. Checking the IP address using ipconfig displays:

IP address	10.10.23.231
Subnet mask	255.255.192.0
Default gateway	10.10.20.1
DNS1	11.11.11.11
DNS2	11.11.11.12

Which of the following should the technician perform NEXT to determine where the issue is located?

A.

Modify the default gateway address and ping the server to test connectivity.

B.

Change the DNS servers to be on the same subnet as the host.

C.

Modify the router's ACL to allow port 80 to exit the network.

D.

Perform a tracert command to locate where the packet is dropped.

Answer: D

Explanation:

QUESTION NO: 304

A network technician is performing a firmware upgrade on a switch. The firmware needs to be downloaded to the device. Which of the following methods should the technician use to retrieve the updated firmware?

A.

RDP

B.

SSH

C.

TFTP

D.

Telnet

Answer: C

Explanation:

QUESTION NO: 305

A network technician is assisting a user who is experiencing connectivity problems with the VPN. The technician has confirmed the VPN is functioning and other users at the site cannot access the Internet. Which of the following commands would MOST likely be used to further troubleshoot?

- A.**
tracert
- B.**
netstat
- C.**
arp
- D.**
dig

Answer: A

Explanation:

QUESTION NO: 306

Which of the following MUST be installed on an employee's computer if the remote access VPN implements an SSL VPN with PKI authentication?

- A.**
Shared secret
- B.**
HTTPS server
- C.**
Soft spoken
- D.**
Private certificate

Answer: D

Explanation:

QUESTION NO: 307

Which of the following default ports should be opened on a firewall to allow for SSH and Telnet?
(Select TWO)

A.
21

B.
22

C.
23

D.
25

E.
123

F.
443

Answer: B,C

Explanation:

QUESTION NO: 308

Two computers are connected to a multilayer switch, and both can access the corporate file server. The computers cannot talk to one another. Which of the following is MOST likely the cause?

A.
Duplex/speed mismatch

B.
ACL misconfiguration

- C.
Bad port
- D.
Crosstalk

Answer: B

Explanation:

QUESTION NO: 309

A user calls the help desk for assistance with setting up a new SOHO router. The user has three employees who all have laptops that need to connect to the wireless network. The users need to have firewall rules allowing access to an internal server, but cannot be configured with static IP addresses. Which of the following BEST describes what the technician should implement?

- A.
CNAME record in the users' dynamic DNS accounts
- B.
Additional lease time for the laptop computers
- C.
IP helper relay system for configuration hops
- D.
DHCP reservation for the laptops' MACs

Answer: D

Explanation:

QUESTION NO: 310

A home user is unable to get to the Internet from a workstation that is connected to a wireless network. When reviewing the results of the ipconfig command, the user wants to verify the default gateway is correct. Which of the following devices should be the gateway?

- A.
Cable modem

- B.**
SOHO router
- C.**
DNS server
- D.**
Layer 2 switch

Answer: A

Explanation:

QUESTION NO: 311

A technician is troubleshooting intermittent connectivity on a line-of-sight wireless bridge. Which of the following tools should the technician use to determine the cause of the packet loss?

- A.**
Spectrum analyzer
- B.**
OTDR
- C.**
Packet sniffer
- D.**
Multimeter

Answer: A

Explanation:

QUESTION NO: 312

Which of the following should be configured to allow for IP-to-name resolutions?

- A.**
CNAME
- B.**

- A
- C.**
PTR
- D.**
NS

Answer: C

Explanation:

QUESTION NO: 313

When configuring a new switch in a packet-switched network, which of the following helps protect against network loops?

- A.**
Spanning tree
- B.**
Flood guard
- C.**
BPDU guard
- D.**
DHCP snooping

Answer: A

Explanation:

QUESTION NO: 314

A company has just installed a new cloud VoIP solution, however, users occasionally report poor call quality or dead air being present. Which of the following describes the NEXT troubleshooting step the technician should take?

- A.**
The technician should check the internal diagnostics on all the phones to look for a common

thread.

B.

The technician should reset all the phones and reprovision information from the provider

C.

The technician should use a packet tracer to see if the traffic is getting out of the network

D.

The technician should run ping tests on the Internet line to monitor for packet loss and latency

Answer: D

Explanation:

QUESTION NO: 315

A network technician needs to configure a device with an embedded OS so it can be connected to a wireless handheld scanner. Which of the following technologies should be configured on the OS to create the wireless connection?

A.

Partial mesh

B.

Ad hoc

C.

Ring

D.

Bus

Answer: B

Explanation:

QUESTION NO: 316

An NGFW alerts that a web server in the DMZ is sending suspicious traffic. A network administrator finds that port 25 is open, and the traffic is originating from this port. The only purpose of this server is to deliver website traffic. Which of the following should the network

administrator recommend to the systems administrator?

- A.**
Disable Telnet service on the server.
- B.**
Disable DHCP service on the server.
- C.**
Disable the SMTP service on the server
- D.**
Disable FTP service on the server.

Answer: C

Explanation:

QUESTION NO: 317

Joe, a network technician, wants to locally back up several router and switch configurations. He wants to store them on a server that can be accessed easily for recovery without authentication. Which of the following servers should Joe use?

- A.**
Telnet
- B.**
LDAP
- C.**
TFTP
- D.**
Samba

Answer: C

Explanation:

QUESTION NO: 318

According to the troubleshooting methodology, which of the following steps will help a technician gather information about a network problem? (Select TWO).

- A.**
Test solutions.
- B.**
Duplicate the problem
- C.**
Establish a theory of probable cause
- D.**
Question users
- E.**
Implement preventive measures.
- F.**
Document findings

Answer: B,D

Explanation:

QUESTION NO: 319

A user reports network resources can no longer be accessed. The PC reports a link but will only accept static IP addresses. The technician pings other devices on the subnet, but the PC displays the message Destination unreachable. Which of the following are MOST likely the causes of this issue? (Select TWO).

- A.**
Damaged cables
- B.**
Crosstalk
- C.**
Bent pins
- D.**
TX/RX reverse
- E.**
VLAN mismatch

F.
Duplex mismatch

Answer: C,E

Explanation:

QUESTION NO: 320

While testing an ACL on the default gateway router to allow only web browsing, ports TCP 80 and TCP 443 were the only ports open. When tested, no websites were accessible via their URLs inside the network. Which of the following configurations should be added to the ACL?

- A.**
permit tcp any any eq 20
- B.**
permit udp any any eq 25
- C.**
C. permit udp any any eq 53
- D.**
permit udp any any eq 68
- E.**
permit tcp any any eq 110
- F.**
permit tcp any any eq 8080

Answer: C

Explanation:

QUESTION NO: 321

Users have been experiencing connection timeout issues when using a web-based program. The network technician determines the problem happened due to a TTL setting that was set too low on the firewall. Which of the following BEST enabled the network technician to reach this conclusion?

- A.**
Reviewing application logs
- B.**
Reviewing a baseline report
- C.**
Reviewing a vulnerability scan
- D.**
Reviewing SLA requirements

Answer: A

Explanation:

QUESTION NO: 322

A network technician is installing a new wireless network for a client. The client has experienced issues with other building tenants connecting to the wireless network and utilizing the bandwidth. The client wants to prevent this from happening by using certificate-based authentication. Which of the following technologies should the network administrator implement?

- A.**
WPA-PSK
- B.**
EAP-TLS
- C.**
AES-CCMP
- D.**
WEP-TKIP

Answer: B

Explanation:

QUESTION NO: 323

A network administrator is installing a campus network of two routers, 24 switches, 76 APs, and

492 VoIP phone sets. Which of the following additional devices should the administrator install to help manage this network?

- A.**
VoIP PBX
- B.**
Content filter
- C.**
RADIUS server
- D.**
Wireless controller

Answer: D

Explanation:

QUESTION NO: 324

A technician arrives at a new building to find cabling has been run and terminated, but only the wall ports have been labeled. Which of the following tools should be utilized to BEST facilitate labeling the patch panel?

- A.**
Tone generator
- B.**
Cable tester
- C.**
Multimeter
- D.**
Loopback adapter

Answer: B

Explanation:

QUESTION NO: 325

Which of the following policies prohibits a network administrator from using spare servers in the datacenter to mine bitcoins?

- A.**
NDA
- B.**
BYOD
- C.**
AUP
- D.**
MOU

Answer: C

Explanation:

QUESTION NO: 326

Which of the following technologies is used when multiple Ethernet adapters work to increase speed and fault tolerance?

- A.**
Clustering
- B.**
Load balancing
- C.**
Redundant circuits
- D.**
NIC teaming

Answer: D

Explanation:

QUESTION NO: 327

A network technician has finished configuring a new DHCP for a network. To ensure proper functionality, which of the following ports should be allowed on the server's local firewall? (Select TWO).

- A.
20
- B.
21
- C.
53
- D.
67
- E.
68
- F.
389

Answer: D,E

Explanation:

QUESTION NO: 328

A network technician is reviewing switch ACLs to determine if they are causing communication issues with one PC. The PC's IP address is 192.168.12.66. Which of the following is the network range found in the ACL that could have affected this PC?

- A.
192.168.12.97 255.255.255.192
- B.
192.168.12.97 255.255.255.224
- C.
192.168.12.97 255.255.255.240
- D.
192.168.12.97 255.255.255.248

Answer: A

Explanation:

QUESTION NO: 329

A new technician is connecting an access switch to a distribution switch uplink in a datacenter using fiber cables. Which of the following are transceivers the technician should use to perform this job? (Select TWO).

- A.**
RJ45
- B.**
DB-9
- C.**
LC
- D.**
SFP
- E.**
GBIC
- F.**
SC

Answer: C,F

Explanation:

QUESTION NO: 330

Which of the following physical security devices is used to prevent unauthorized access into a datacenter?

- A.**
Motion detector
- B.**
Video camera
- C.**

Asset tracking

D.

Smart card reader

Answer: D

Explanation:

QUESTION NO: 331

A technician is installing two new servers that collect logs. After installing the servers, the technician reviews the logical output from various commands. Which of the following should be included in a logical network diagram?

A.

Rack location

B.

Room number

C.

Media type

D.

Hostname

Answer: D

Explanation:

QUESTION NO: 332

A few weeks after starting a new position, Joe, a junior network administrator, receives a call from an internal number asking for his username and password to update some records. Joe realizes this may be a type of attack on the network, since he has full access to network resources. Which of the following attacks is described?

A.

Logic bomb

- B.**
Social engineering
- C.**
Trojan horse
- D.**
Insider threat

Answer: B

Explanation:

QUESTION NO: 333

A technician is sent to troubleshoot a faulty network connection. The technician tests the cable, and data passes through successfully. No changes were made in the environment, however, when a network device is connected to the switch using the cable, the switchport will not light up. Which of the following should the technician attempt NEXT?

- A.**
Modify the speed and duplex
- B.**
Plug in to another port
- C.**
Replace the NIC
- D.**
Change the switch

Answer: B

Explanation:

QUESTION NO: 334

A technician has been assigned to capture packets on a specific switchport. Which of the following switch feature MUST be used to accomplish this?

- A.**
Spanning tree
- B.**
Trunking
- C.**
Port aggregation
- D.**
Port mirroring

Answer: D

Explanation:

QUESTION NO: 335

Which of the following operate only within the UDP protocol?

- A.**
Frames
- B.**
Datagrams
- C.**
Segments
- D.**
Packets

Answer: B

Explanation:

QUESTION NO: 336

An employee reports an error when visiting a website using SSL, and a message is displayed warning of an invalid certificate. Which of the following could be occurring?

- A.**

Phishing

B.

DDoS

C.

Evil twin

D.

MITM

E.

OCSP stapling

Answer: C

Explanation:

QUESTION NO: 337

A network technician is troubleshooting a connectivity issue and determines the cause is related to the VLAN assignment on one of the access switches in the network. After resolving the issue, the network technician decides to update the documentation to refer to the correct VLAN. Which of the following should the technician update?

A.

Physical diagram

B.

Logical diagram

C.

IDF documentation

D.

Change management documentation

E.

Incident response plan

Answer: B

Explanation:

QUESTION NO: 338

A university has a lecture hall containing 100 students. Currently, the lecture hall has two 802.11ac wireless access points, which can accommodate up to 50 devices each. Several students report they are unable to connect devices to the wireless network. Which of the following is MOST likely the issue?

- A.**
One of the wireless access points is on the wrong frequency
- B.**
The students are attempting to connect 802.11g devices
- C.**
The students are using more than one wireless device port seat.
- D.**
Distance limitations are preventing the students from connecting.

Answer: D

Explanation:

QUESTION NO: 339

A WAP has been dropping off the network sporadically and reconnecting shortly thereafter. The Cat5 wire connecting the access point is a long run of 265ft (81m) and goes through the business area and the mechanical room. Which of the following should the technician do to fix the AP connectivity issue?

- A.**
Install a repeater to boost the signal to its destination
- B.**
Replace the UTP cable with plenum cable.
- C.**
Upgrade the cable from Cat 5 to Cat 5e.
- D.**
Set the AP to half duplex to compensate for signal loss.

Answer: C

Explanation:

QUESTION NO: 340

A technician wants to configure a SOHO network to use a specific public DNS server. Which of the following network components should the technician configure to point all clients on a network to a new DNS server?

- A.**
Router
- B.**
Switch
- C.**
Load balancer
- D.**
Proxy server

Answer: A

Explanation:

QUESTION NO: 341

A company wishes to allow employees with company-owned mobile devices to connect automatically to the corporate wireless network upon entering the facility. Which of the following would BEST accomplish this objective?

- A.**
Open wireless
- B.**
Geofencing
- C.**
Pre-shared key
- D.**
MAC filtering

Answer: C

Explanation:

QUESTION NO: 342

A network engineer for a manufacturing company is implementing a wireless network that provides reliable coverage throughout the facility. There are several large, electric, motorized machines installed on the shop floor for automating the manufacturing process. These machines are known to be significant sources of RF interference. Which of the following frequencies should the wireless network use to MINIMIZE this interference?

- A.**
2.4 GHz
- B.**
56MHz
- C.**
5GHz
- D.**
900MHz

Answer: C

Explanation:

QUESTION NO: 343

A company has procured a new office building and started the process of assigning employees to work at that location. The company has also purchased equipment for the new location. There are 5033 laptops, 6000 monitors, and 857 printers. Which of the following steps is the technician most likely to complete FIRST?

- A.**
Create a rack diagram
- B.**
Create a network baseline
- C.**

Create an inventory database

D.

Create a port location diagram

Answer: C

Explanation:

QUESTION NO: 344

Which of the following is created on a 48-port switch with five active VLANs?

A.

48 networks, five segments

B.

48 collision domains, five broadcast domains

C.

240 private networks

D.

240 usable IP addresses

Answer: B

Explanation:

QUESTION NO: 345

A corporate manager says wireless phones do not work properly inside the main building. After a troubleshooting process, the network administrator detects that the voice packets are arriving on the wireless phones with different delay times. Which of the following performance issues is the company facing?

A.

Jitter

B.

Latency

C.
Attenuation

D.
Frequency mismatch

Answer: A

Explanation:

QUESTION NO: 346

Which of the following technologies is used to attach multiple guest operating systems to a single physical network port?

A.
Virtual switch

B.
FCoE

C.
VPC

D.
vSAN

E.
Fibre Channel

Answer: A

Explanation:

QUESTION NO: 347

When speaking with a client, an employee realizes a proposed solution may contain a specific cryptographic technology that is prohibited for non-domestic use. Which of the following documents or regulations should be consulted for confirmation?

A.

Incident response policy

B.

International export controls

C.

Data loss prevention

D.

Remote access policies

E.

Licensing restrictions

Answer: B

Explanation:

QUESTION NO: 348

A network technician is installing a new network switch in the MDF. The technician is using fiber to connect the switch back to the core. Which of the following transceiver types should the technician use?

A.

MT-RJ

B.

BNC

C.

GBIC

D.

F-type

Answer: C

Explanation:

QUESTION NO: 349

A network technician notices a router that repeatedly reboots. When contacting technical support, the technician discovers this is a known problem in which an attacker can craft packets and send them to the router through an obsolete protocol port, causing the router to reboot. Which of the following did the network technician fail to do? (Select TWO).

- A.**
Generate new crypto keys.
- B.**
Keep patches updated.
- C.**
Disable unnecessary services.
- D.**
Shut down unused interfaces.
- E.**
Avoid using common passwords.
- F.**
Implement file hashing.

Answer: B,C

Explanation:

QUESTION NO: 350

A technician has replaced a customer's desktop with a known-good model from storage. However, the replacement desktop will not connect to network resources. The technician suspects the desktop has not been kept up to date with security patches. Which of the following is MOST likely in place?

- A.**
ACL
- B.**
NAC
- C.**
Traffic shaping
- D.**
SDN

E.
NTP

Answer: B

Explanation:

QUESTION NO: 351

A network technician wants to gain a better understanding of network trends to determine if they are over capacity. Which of the following processes should the technician use?

- A.**
Log review
- B.**
Port scanning
- C.**
Vulnerability scanning
- D.**
Traffic analysis

Answer: D

Explanation:

QUESTION NO: 352

A network technician is configuring network addresses and port numbers for a router ACL to block a peer-to-peer application. Which of the following is the HIGHEST layer of the OSI model at which this router ACL operates?

- A.**
Transport
- B.**
Network
- C.**

Session

D.

Application

Answer: A

Explanation:

QUESTION NO: 353

An attacker has flooded the hardware tables of a switch to forward traffic to the attacker's IP address rather than the default router. The traffic received is copied in real time, and then forwarded to the default router transparently from the end-user perspective. Which of the following attacks are occurring in this scenario? (Choose two.)

A.

DNS poisoning

B.

ARP poisoning

C.

Man-in-the-middle

D.

Ransomware

E.

Evil twin

F.

Reflective

Answer: B,C

Explanation:

QUESTION NO: 354

A remote user is required to upload weekly reports to a server at the main office. Both the remote user and the server are using a Windows-based OS. Which of the following represents the BEST

method for the remote user to connect to the server?

- A.**
RDP
- B.**
Telnet
- C.**
SSH
- D.**
VNC

Answer: A

Explanation:

QUESTION NO: 355

At which of the following layers of the OSI model would TCP/UDP operate?

- A.**
Layer 3
- B.**
Layer 4
- C.**
Layer 5
- D.**
Layer 6

Answer: B

Explanation:

QUESTION NO: 356

A technician is troubleshooting a server in the finance office that hosts an internal accounting program. The ticketing desk has received several calls from users reporting that access to the

accounting program is degraded, and they are experiencing severe delays, sometimes timing out entirely. The problem has been isolated to the server. Which of the following tools should the technician use on the server to narrow down the issue?

- A.
nslookup
- B.
iptables
- C.
pathping
- D.
netstat

Answer: C

Explanation:

QUESTION NO: 357

A technician is reviewing network device logs in an attempt to trace an attack that occurred on the network. Which of the following protocols would affect whether or not the technician can properly trace the attack through the network using the logs?

- A.
HTTP
- B.
SMTP
- C.
NTP
- D.
RDP

Answer: C

Explanation:

QUESTION NO: 358

Which of the following is BEST for providing real-time equipment theft alerts to the security staff?

- A.**
Biometric locks
- B.**
Smart card reader
- C.**
Asset tracking tags
- D.**
Motion detection

Answer: B

Explanation:

QUESTION NO: 359

A development team has been testing a web server on a virtual server to create a web application. Once satisfied, the development team clones the entire virtual server into production. The development team needs to use HTTP, HTTPS, and SSH to connect to the new server. Which of the following should the network administrator do to help secure this new production VM? (Choose two.)

- A.**
Disable the HTTP port in the host firewall.
- B.**
Upgrade the firmware on the firewall.
- C.**
Generate new SSH host keys.
- D.**
Remove unnecessary testing accounts.
- E.**
Issue a new self-signed certificate.

Answer: C,E

Explanation:

QUESTION NO: 360

A wireless client is having issues staying connected to the wireless network even though the client is less than 20ft (6m) from the access point. Which if the following is MOST likely the cause?

- A.**
Distance limitations
- B.**
Latency
- C.**
Security type mismatch
- D.**
Absorption

Answer: D

Explanation:

QUESTION NO: 361

Which of the following is a network device that is responsible for separating collision domains?

- A.**
Switch
- B.**
Router
- C.**
Hub
- D.**
Modem

Answer: A

Explanation:

QUESTION NO: 362

Which of the following network topologies is primarily used to connect servers to large network disk arrays?

- A.**
SAN
- B.**
MAN
- C.**
CAN
- D.**
PAN
- E.**
LAN

Answer: A

Explanation:

QUESTION NO: 363

After setting up in a temporary office, Joe tries to access the company's wireless network. Following several attempts, Joe is able to get an IP, but cannot access network resources. Which of the following is the MOST likely cause of this error when trying to connect to the company's wireless network?

- A.**
Incorrect passphrase
- B.**
Incorrect power levels
- C.**
Incorrect workstation certificate

D.
Incorrect encryption

Answer: C
Explanation:

QUESTION NO: 364

A network technician is assisting a user who is having problems accessing a particular website. Other users are reporting that the website is accessible outside of the office. The technician suspects the problem is with the company's firewall. Which of the following should the technician use to troubleshoot?

- A.**
WiFi analyzer
- B.**
Bandwidth speed tester
- C.**
Dig
- D.**
Packet sniffer

Answer: C
Explanation:

QUESTION NO: 365

Which of the following protocols are used to configure an email client to receive email? (Choose two.)

- A.**
IMAP
- B.**
SMTP

- C.**
POP
- D.**
SFTP
- E.**
TFTP

Answer: A,C

Explanation:

QUESTION NO: 366

A network extension needs to be run to a location 500ft(152m) from the nearest switch. Which of the following solutions would work BEST? (Choose two.)

- A.**
Cat 6 with a repeater placed in the middle of the run
- B.**
Cat 7
- C.**
Crossover cable
- D.**
Fiber-optic cabling
- E.**
Cat 7 with a patch panel placed in the middle of the run

Answer: A,D

Explanation:

QUESTION NO: 367

A network administrator wants to connect to a remote device via SSH. Which of the following layers of the OSI model is the protocol using?

A.

3

B.

4

C.

5

D.

6

E.

7

Answer: E

Explanation:

QUESTION NO: 368

A technician has received a report that details the need for a patch and a complete list of the affected systems. Which of the following activities MOST likely generated the report?

A.

Port enumeration

B.

Baseline review

C.

Vulnerability scanning

D.

Packet analysis

Answer: C

Explanation:

QUESTION NO: 369

A small company has decided to use a single virtual appliance to filter spam as well as reverse proxy and filter traffic to its internal web server. Which of the following has the company MOST likely deployed?

- A.**
IPS
- B.**
Firewall
- C.**
SIEM
- D.**
UTM
- E.**
Content filter

Answer: E

Explanation:

QUESTION NO: 370

Which of the following devices would allow a network administrator to block an application at Layer7 on the network?

- A.**
Firewall
- B.**
NGFW
- C.**
Router
- D.**
Spam filter

Answer: B

Explanation:

QUESTION NO: 371

A client requests a new dynamic address and receives a response from two DHCP servers. Which of the following addressing information would the client use?

A.

The IP addressing information received last

B.

The IP addressing information from the highest server MAC address

C.

The IP addressing information from the highest server IP address

D.

The IP addressing information received first

Answer: D

Explanation:

QUESTION NO: 372

A technician is preparing to dispose of old network devices. Which of the following policies and best practices would outline procedures for removing sensitive information and configurations from surplus equipment?

A.

System life-cycle procedures

B.

Off-boarding procedures

C.

Safety procedures

D.

Appropriate use policy

Answer: B

Explanation:

QUESTION NO: 373

Ann, a network technician, is told to disable unused ports on a switch. Another technician tells her the policy is to move those ports into a non-routed VLAN and leave them enabled. Which of the following documents should Ann use to ensure she is employing the correct method?

- A.**
Inventory management
- B.**
Wiring and port location
- C.**
Configuration baseline
- D.**
Standard operating procedure

Answer: D

Explanation:

QUESTION NO: 374

A network technician does not have access to the GUI of a server and needs to adjust some network properties. Given the command:

```
route add 0.0.0.0 mask 0.0.0.0 192.169.1.222 metric 1
```

Which of the following is the technician attempting to alter?

- A.**
The technician is clearing the route table.
- B.**
The technician is adding a static IP address.
- C.**
The technician is clearing the subnet mas setting.
- D.**
The technician is setting the default gateway.

Answer: D

Explanation:

QUESTION NO: 375

A company is experiencing exponential growth and has hired many new employees. New users are reporting they cannot log into their systems, even though they are on the same network. The technician can see physical connectivity to the network switch along with their MAC addresses. Which of the following should the technician check NEXT?

- A.**
VLAN routing
- B.**
Server-based firewall configuration issue
- C.**
Patch cable type
- D.**
DHCP scope availability

Answer: D

Explanation:

QUESTION NO: 376

A network technician is installing and configuring a new router for the sales department. Once the task is complete, which of the following needs to be done to record the change the technician is making to the company network?

- A.**
Change management
- B.**
Network diagrams
- C.**
Inventory report

D.
Labeling report

Answer: A
Explanation:

QUESTION NO: 377

A network technician receives reports indicating some users are unable to gain access to any network resources. During troubleshooting, the technician discovers the workstations have an IP address of 169.254.x.x. Which of the following is the MOST likely cause?

- A.**
Expired IP address
- B.**
Exhausted dynamic scope
- C.**
Misconfigured VLSM
- D.**
Rogue DHCP server

Answer: B
Explanation:

QUESTION NO: 378

A customer has submitted a request for a new wireless connection in the main office so visitors can reach the Internet to check their email. The customer is concerned about security and does not want visitors to be able to access the internal finance server. Which of the following BEST describes the correct configuration?

- A.**
The LAN and WLAN should be configured in the same zone with dynamic DENY ALL rules.
- B.**
The LAN and WLAN should be configured in the DMZ so traffic is denied automatically.

C.

The LAN and WLAN should be marked as trusted during work hours and untrusted during off hours.

D.

The LAN and WLAN should be configured in separate zones with a firewall in between.

Answer: D

Explanation:

QUESTION NO: 379

An employee, who using a laptop connected to the wireless network, is able to connect to the Internet but not to internal company resources. A systems administrator reviews the following information from the laptop:

```
IP: 192.168.1.100  
MASK: 255.255.255.0  
ROUTER: 192.168.1.1
```

The administrator was expecting to see a network address within 10.100.0.0/23, which is consistent with the company's wireless network. The network administrator verifies the company's wireless network is configured and working properly. Which of the following is the MOST likely cause of this issue?

A.

Interference

B.

Security type mismatch

C.

Wrong SSID

D.

Channel overlap

Answer: C

Explanation:

QUESTION NO: 380

Which of the following technologies should be used in high-throughput network to reduce network overhead?

- A.**
iSCSI
- B.**
QoS tags
- C.**
Port aggregation
- D.**
Jumbo frames

Answer: D

Explanation:

QUESTION NO: 381

A network topology requires a switch to be placed in an unsecured location. Which of the following techniques should be used to prevent unauthorized access? (Choose two.)

- A.**
Disabling unused ports
- B.**
Upgrading firmware
- C.**
Using secure protocols
- D.**
File hashing
- E.**
MAC filtering
- F.**
Configuring a honeypot

Answer: A,E

Explanation:

QUESTION NO: 382

A network technician is assisting a user who has relocated to a newly constructed office space. The user has no network connectivity. A cable tester was used on the port and is reporting that the pairs are open. Which of the following should be used to remedy this problem?

- A.**
Loopback adapter
- B.**
Tone generator
- C.**
Multimeter
- D.**
Punchdown tool

Answer: D

Explanation:

QUESTION NO: 383

A technician needs to add ten additional Ethernet ports to a small office network. A new basic function switch is added. Hosts connected to the new switch are unable to see any computers on the network other than those connected to the new switch. Which of the following should the technician perform to ensure the hosts on the new switch can communicate with the existing network?

- A.**
Replace the new switch with a hub to ensure Layer1 connectivity on the new network segment.
- B.**
Move the straight-through Ethernet cable connecting the switches to the first port on both switches.
- C.**

Connect the switches with a cable that has a TIA/EIA 586A wired connector end and a TIA/EIA 586B wired end.

D.

Add a second cable connecting the switches for redundancy and disabling STP on both switches.

Answer: C

Explanation:

QUESTION NO: 384

Before upgrading the firmware on several routers, a technician must verify the firmware file received is the same one the vendor provided. Which of the following should the technician use?

A.

3DES encryption

B.

SSL certificate

C.

Digital signatures

D.

MD5 hash

Answer: D

Explanation:

QUESTION NO: 385

Which of the following is the MOST secure type of remote administration?

A.

SSH over IPsec client-to-site VPN

B.

RDP over SSLv2 HTTPS terminal services gateway

C.

HTTP over WPA2-TKIP WiFi

D.

Telnet over PSTN

Answer: A

Explanation:

QUESTION NO: 386

A wireless access point that was working in a large warehouse last week is now offline. The technician observes there is no power to the device. The technician verifies PoE is working on the switchport, and then confirms the wireless access point is still not powering up. Which of the following is the MOST likely issue?

A.

Attenuation

B.

Incorrect pin-out

C.

Damaged cable

D.

Switch configuration

Answer: C

Explanation:

QUESTION NO: 387

A network engineer is trying to determine where to place a firewall based on the flow of traffic. Which of the following types of documentation would assist the engineer in doing this?

A.

Change management

B.

Rack diagram

C.

Network configuration

D.

Network diagram

Answer: D

Explanation:

QUESTION NO: 388

A user believes a work email account has been compromised. A technician discovers that an email seeming to be from the user's bank shares the same origin IP address as the last login to the email account. Which of the following types of attack is described in this scenario?

A.

Spam

B.

Ransomware

C.

Man-in-the-middle

D.

Phishing

Answer: C

Explanation:

QUESTION NO: 389

A customer wants to set up a guest wireless network for visitors. The customer prefers to not have a password on the network. Which of the following should a technician set up to force guests to provide information before using the network?

A.

Single sign-on

B.

RADIUS

C.

TACACS+

D.

Captive portal

Answer: D

Explanation:

QUESTION NO: 390

A zero-day vulnerability is discovered that affects a specific network device. This vulnerability only affects services on port 21. This network device is restricted to use only secure protocols and services. Which of the following explains why this device is secure?

A.

Because secure protocols would reject malicious packets

B.

Because SCP is not a secure service

C.

Because FTP is not a secure service

D.

Because a secure firewall will protect the device

Answer: C

Explanation:

QUESTION NO: 391

Which of the following protocols is used by Active Directory for authentication?

A.

SSH

B.

SFTP

C.

LDAP

D.

TLS

Answer: C

Explanation:

QUESTION NO: 392

When deploying UTP cables in a networking environment, which of the following are acceptable standards? (Choose two.)

A.

10Base2

B.

10Base5

C.

10GBaseT

D.

1000BaseLX

E.

1000BaseSX

F.

1000BaseT

Answer: C,F

Explanation:

QUESTION NO: 393

Which of the following is the physical location where the customer-premise equipment comes together with the ISP or third-party telecommunications equipment?

- A.**
Server room
- B.**
Equipment closet
- C.**
Demarcation point
- D.**
Intermediate distribution frame

Answer: C

Explanation:

QUESTION NO: 394

A vulnerability that would allow an unauthenticated, remote attacker to originate a DoS attack was found in a DHCP client implementation of a switch. Which of the following would BEST resolve the issue?

- A.**
Verify the default passwords have been changed.
- B.**
Upgrade to the latest firmware
- C.**
Generate new SSH keys.
- D.**
Review and modify the firewall rules.

Answer: B

Explanation:

QUESTION NO: 395

A human resources manager notifies the IT manager the night before an employee will be terminated so the employee's access rights can be removed. Which of the following policies is being exercised?

- A.**
Privileged user agreement
- B.**
AUP
- C.**
Non-disclosure agreement
- D.**
Offboarding

Answer: D

Explanation:

QUESTION NO: 396

Log files show the admin user has logged into a public-facing device on several occasions in the evening. None of the technicians admit to doing any after-hours work, and the password has been changed several times but failed to prevent the logins. Which of the following should be the NEXT step to attempt to harden the device?

- A.**
Disable unused ports.
- B.**
Reset the two-factor token.
- C.**
Disable virtual ports.
- D.**
Upgrade the firmware.

Answer: A

Explanation:

QUESTION NO: 397

A network technician is setting up the wireless network for a company's new branch office. After doing a site survey, the technician discovers there is a lot of interference from 2.4GHz devices at the location on channel 11. Which of the following would be the BEST channel on which to set up the WAPs?

- A.**
Channel 6
- B.**
Channel 7
- C.**
Channel 9
- D.**
Channel 10

Answer: A

Explanation:

QUESTION NO: 398

A network technician has deployed a new 802.11ac network and discovers some of the legacy POS equipment only supports WPA and 802.11a. Which of the following is the MOST secure method of connecting all devices while avoiding a performance impact to modern wireless devices?

- A.**
Configure the APs to use LEAP authentication to support WPA rather than WPA2 for full compatibility.
- B.**
Configure modern devices under the 5GHz band while dedicating the 2.4GHz band to legacy devices.
- C.**
Connect the legacy devices with a PSK while the modern devices should use the more secure EAP.
- D.**
Create two SSIDs, one to support CCMP-AES encryption and one with TKIP-RC4 encryption.

Answer: C

Explanation:

QUESTION NO: 399

Which of the following BEST describes the characteristics of a differential backup solution?

A.

Backs up files with the creation or modified date as the current date.

B.

Backs up all files and sets the archive bit.

C.

Backs up files with a date earlier than today's date with a clear archive bit.

D.

Backs up files with the archive bit set but does not clear the bit.

Answer: A

Explanation:

QUESTION NO: 400

A technician has been asked to diagnose problems with DHCP addressing on a VLAN. The DHCP server responds to pings from the technician's machine. Which of the following should the technician use to help diagnose the problem?

A.

Packet sniffer

B.

netstat

C.

nslookup

D.

Spectrum analyzer

Answer: A

Explanation:

QUESTION NO: 401

Which of the following allow for higher fault tolerance, availability, and performance across multiple systems? (Choose two.)

- A.**
Load balancer
- B.**
Jumbo frames
- C.**
Clustering
- D.**
Round robin
- E.**
TCP offloading

Answer: A,C

Explanation:

QUESTION NO: 402

A technician is investigating an issue related to a single host that is unable to access the Internet. The technician records the following information: Host IP 169.254.1.10. The network IP address range on the DHCP server is 10.10.5.2-10.10.5.250 with a default gateway 10.10.5.1 and a DNS of 8.8.8.8. Which of the following should the technician perform to troubleshoot the issue?

- A.**
Change the IP scope on the DHCP server to a public IP address range.
- B.**
Perform a traceroute command to identify the router that is not functioning.
- C.**

Verify the host has physical connectivity and is on the correct VLAN.

D.

Configure the DNS address in the DHCP scope to a 10.10.5.0/24 address.

Answer: C

Explanation:

QUESTION NO: 403

A network administrator wants to reduce the amount of time each user takes to log in to different systems in the network. Which of the following would reduce the time spent authenticating?

A.

Kerberos

B.

RADIUS

C.

Certificate

D.

SSO

E.

MFA

F.

NAC

Answer: D

Explanation:

QUESTION NO: 404

A network technician arrives at a remote office and is unable to connect a laptop to corporate resources using the wireless network. After checking the IP address, the network technician notices the assigned IP address does not belong to the corporate network IP scheme. Which of the following has the network technician discovered?

- A.**
Evil twin
- B.**
ARP poisoning
- C.**
DHCP exhaustion
- D.**
Social engineering

Answer: A

Explanation:

QUESTION NO: 405

Which of the following is an object held within an MIB?

- A.**
OUI
- B.**
OTDR
- C.**
OID
- D.**
SNMP host
- E.**
SNMP agent
- F.**
SNMP trap

Answer: C

Explanation:

QUESTION NO: 406

Which of the following storage network technologies has the HIGHEST throughput?

- A.
FCoE
- B.
InfiniBand
- C.
iSCSI
- D.
OC3

Answer: B

Explanation:

QUESTION NO: 407

The corporate head office has assigned the subnet of 10.1.100.0/24 to a network technician. The technician wants to create subnets for the finance department, human resources, and IT. Given the following device counts:

Finance: 70 devices
Human resources: 38 devices
IT: 16 devices

Which of the following outlines how the technician should allocate the address space given?

- A.

Finance: 10.1.100.0/21
Human resources: 10.1.100.128/22
IT: 10.1.100.192/23
- B.

Finance: 10.1.100.0/23
Human resources: 10.1.100.128/22
IT: 10.1.100.192/21
- C.

Finance: 10.1.100.0/25
Human resources: 10.1.100.128/26
IT: 10.1.100.192/27

D.

Finance: 10.1.100.0/26
Human resources: 10.1.100.128/27
IT: 10.1.100.192/28

Answer: C

Explanation:

QUESTION NO: 408

A network administrator is configuring the 172.16.40.0/22 network for a new building. Which of the following is the number of hosts that will be supported on this network?

- A.
510
- B.
512
- C.
1022
- D.
1024
- E.
2046
- F.
2048

Answer: C

Explanation:

QUESTION NO: 409

At which of the following layers of the OSI model does compression occur?

- A.**
Session
- B.**
Transport
- C.**
Data link
- D.**
Presentation

Answer: D

Explanation:

QUESTION NO: 410

Users report that the network is slow. Upon investigation, the technician notices all users are on one large subnet. Which of the following devices should be used to break up broadcast domains?

- A.**
Layer 2 switch
- B.**
Layer 3 switch
- C.**
Signal repeater
- D.**
Bridge
- E.**
Domain server

Answer: B

Explanation:

QUESTION NO: 411

Ann, a user, reports that her desktop phone is not working on one cable. However, that cable provides connectivity to her laptop. A technician determines PoE is not provided to the end device. Which of the following is MOST likely the cause?

- A.**
Transceiver mismatch
- B.**
Crosstalk
- C.**
Jitter
- D.**
Open/short on the cable

Answer: A

Explanation:

QUESTION NO: 412

A network technician has been asked to create secure private networks between a company's headquarters and several branch locations. The company has provided the on-premises equipment, but each branch has a different ISP. Which of the following technologies should the technician consider using to accomplish this?

- A.**
Site-to-site
- B.**
Client-to-site
- C.**
Point-to-point
- D.**
Point-to-multipoint

Answer: A

Explanation:

QUESTION NO: 413

A department is reporting network issues. Users can ping each other and the switch, but not the default gateway. When looking at a wiring diagram and a physical blueprint, a technician notices the 1000BaseLX SFP connects to a distribution switch via a cable that runs behind a large industrial refrigerator. The technician also notices both switches have been worked on recently. Which of the following is MOST likely the issue?

- A.**
EMI
- B.**
TX/RX reverse
- C.**
Open/short
- D.**
Attenuation

Answer: A

Explanation:

QUESTION NO: 414 HOTSPOT

You have been tasked with testing a CAT5e cable. A summary of the test results can be found on the screen.

Instructions

Step 1: Select the tool that was used to create the cable test results.

Step 2: Interpret the test results and select the option that explains the results. After you are done with your analysis, click the 'Submit' button.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Answer Area

Step 1 Select the tool that was used to create the cable test results

	▼
Cable Certifier	
Punch Down Tool	
Crimper	
Toner Probe	
OTDR	
Multimeter	
Protocol Analyzer	

Step 2 Interpret the test results and select the option that explains the results

	▼
Correctly crimped cable	
Incorrectly crimped cable	

Answer:

Answer Area

Step 1 Select the tool that was used to create the cable test results

	▼
Cable Certifier	
Punch Down Tool	
Crimper	
Toner Probe	
OTDR	
Multimeter	
Protocol Analyzer	

Step 2 Interpret the test results and select the option that explains the results

	▼
Correctly crimped cable	
Incorrectly crimped cable	

Explanation:

Step 1 - Cable certifier

Step 2 - Incorrectly crimped cable

QUESTION NO: 415

A shop owner wants to ensure that only a specified group of devices can access the wireless network. Which of the following methodologies will BEST ensure unauthorized devices cannot consume the shop owner's limited Internet bandwidth?

- A.**
Disable the SSID broadcast.
- B.**
Implement WEP authentication.
- C.**

Change the WiFi password.

D.

Activate MAC address filtering.

Answer: D

Explanation:

QUESTION NO: 416

A large company uses an AAA server to manage network device access. The engineers can use their domain credentials to access all other servers. Currently, the network engineers cannot access the AAA server using domain credentials, but they can access it using a local account. Which of the following should the engineers update?

A.

Host-based firewall settings

B.

TACAS+ server time

C.

Server IP address

D.

DNS SRV record

Answer: B

Explanation:

QUESTION NO: 417

A network technician has been asked to install an additional switch in an IDF, but all of the single-mode fiber is in use between the IDF and MDF. The technician has deployed new transceivers that allow for the use of a single fiber strand, providing the additional fiber needed for the new switch. Which of the following has the technician deployed?

A.

1000BaseLX SFP

- B.**
Duplex GBIC
- C.**
Duplex SFP+
- D.**
Bidirectional SFP

Answer: D

Explanation:

QUESTION NO: 418

A network administrator wants to ensure all traffic is inspected and abides by the AUP, and that malicious traffic is stopped. Which of the following features should be enabled on a firewall to meet this requirement?

- A.**
Intrusion detection
- B.**
Proxy service
- C.**
Dynamic DNS
- D.**
Content filtering

Answer: D

Explanation:

QUESTION NO: 419

A network technician has purchased a 10GBase-T switch and wishes to connect it to 30 computers with 10GB network cards. The computers are 225ft (69m) away, and all need to establish a 10 Gbps connection to meet business requirements. To minimize costs while still meeting these requirements, which of the following cable types should the technician choose?

- A.**
Cat 5e
- B.**
Cat 6
- C.**
Cat 6a
- D.**
Cat 7

Answer: C

Explanation:

QUESTION NO: 420

A technician is configuring a new email server and needs to modify DNS records. Which of the following records should the technician update to ensure email functions as expected?

- A.**
MX
- B.**
CNAME
- C.**
AAAA
- D.**
SRV

Answer: A

Explanation:

QUESTION NO: 421

Which of the following BEST describes the functionality of the root guard feature on a switch?

- A.**

BPDU's entering the root bridge are ignored.

B.

The STP root bridge cannot be changed.

C.

Broadcast storms entering from a root port are blocked.

D.

Loop protection is enabled on the root port of a switch.

Answer: B

Explanation:

QUESTION NO: 422

A network administrator is adding a new WAN circuit from the ISP to a new building. In which of the following locations would the network administrator find the utility entry point?

A.

DMZ

B.

Data tier

C.

IDF

D.

Demarc

Answer: D

Explanation:

QUESTION NO: 423

The help desk is receiving reports of intermittent connections to a server. A help desk technician suspects the server is unable to establish a three-way handshake due to a DoS attack. Which of the following commands should a network administrator use to confirm the help desk technician's claim?

- A.**
nmap
- B.**
arp
- C.**
tcpdump
- D.**
dig

Answer: C

Explanation:

QUESTION NO: 424

A technician discovered a company computer had a virus but was unable to remove it. The technician decided to erase the hard drive to eliminate the threat. Which of the following policies did the technician violate?

- A.**
Data loss prevention
- B.**
Incident response
- C.**
Asset disposal
- D.**
Acceptable use

Answer: A

Explanation:

QUESTION NO: 425

A company hires another firm to test the integrity of its information security controls. This is an example of:

- A.**
role separation
- B.**
device hardening
- C.**
risk assessment
- D.**
penetration testing

Answer: D

Explanation:

QUESTION NO: 426

A network technician is troubleshooting an issue routing TCP packets to an email server. At which of the following OSI layers is the issue occurring?

- A.**
Layer 1 –Physical
- B.**
Layer 3 –Network
- C.**
Layer 4 –Transport
- D.**
Layer 7 –Application

Answer: C

Explanation:

QUESTION NO: 427

A vendor is installing an Ethernet network in a new hospital wing. The cabling is primarily run above the ceiling grid near air conditioning ducts and sprinkler pipes. Which of the following cable types is required for this installation?

- A.**
Plenum
- B.**
PVC
- C.**
Single-mode
- D.**
Cat 7

Answer: A

Explanation:

QUESTION NO: 428

A network technician works in a large environment with several thousand users. Due to the needs of the organization, the network manager has asked the technician to design a solution that accommodates the data needs of all the users, while keeping all data on site. Which of the following solutions should the technician implement?

- A.**
SaaS
- B.**
SAN
- C.**
NAS
- D.**
IaaS

Answer: B

Explanation:

QUESTION NO: 429

Which of the following can be used to prevent unauthorized employees from entering restricted

areas?

A.

Sign-in sheets

B.

Video cameras

C.

Motion sensors

D.

Swipe badges

Answer: D

Explanation:

QUESTION NO: 430

A Chief Information Security Officer (CISO) has decided to implement a secure and user-friendly way to connect to the corporate wireless network. Each workstation will be authenticated individually using a unique certificate that will be deployed to the workstation by the organization's certificate authority. Which of the following authentication methods would meet this requirement?

A.

PEAP

B.

WP2-PSK

C.

Captive portal

D.

EAP-TLS

Answer: D

Explanation:

QUESTION NO: 431

A bookstore uses a Faraday cage to comply with credit card regulations. Customers report that their cellular phones have no signal when they are in the bookstore. Which of the following is the MOST likely cause?

A.

The Faraday cage is creating interference within the bookstore.

B.

The Faraday cage prevents access by redirecting signals.

C.

The Faraday cage is creating latency on the cellular network.

D.

The Faraday cage is creating attenuation of the cellular network.

Answer: B

Explanation: