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## Exam A

### QUESTION 1

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?



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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



### QUESTION 2

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 6

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.)



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- A. SIP
- B. NTP

- C. H.323
- D. SMB
- E. ICMP
- F. RTP
- G. IPSec
- H. RDP

**Correct Answer:** ACF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 7

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. RTPC. RIP
- D. NTP
- E. SIP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 8

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 9**

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 10**

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

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?



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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

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. Honeytrap

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

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

- A. 0



- B. 1
- C. 2
- D. 6
- E. 12

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 17

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

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 19**

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



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- A. 10.8.0.0/16
- B. 10.8.0.0/19
- C. 10.8.0.0/20
- D. 10.0.0.0/24

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 20**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 21**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

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 me
- B. IP helper
- C. TTL
- D. DNS record type



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

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

- A. Speed
- B. Duplex
- C. MTU

D. TTL

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 25

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 26

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

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?



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- A. SSH in tunnel mode
- B. RDP set to console connection
- C. EAP-PEAP
- D. SFTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

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

**Correct Answer:** EFG

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 32

The backup 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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 33

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 34

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



**Correct Answer:** ABD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 35

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

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 36**

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

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 37**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 38**

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?



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

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 39**

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 40**

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 41**

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

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 42

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

- A. STP
- B. VLANs
- C. SIP
- D. DSCP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 43

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 44

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



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 45

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 46**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 47**

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?



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- A. Disaster recovery plan
- B. Business continuity plan
- C. Service level agreement

D. First responder training

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 48

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

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 49

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

**Correct Answer:** A



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 50**

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

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

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

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 52**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 53**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 54**

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 55

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

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 56

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?



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- 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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 57

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 58

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 59**

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 60**

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 61**

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 62**

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 63**

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

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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