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510 Questions and Answers

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QUESTION 1

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

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 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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

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 13

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. Airflow and cooling
- B. UPS capability
- C. Circuit labeling
- D. Power redundancy

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

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 15

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 16

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

Correct Answer: EF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

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 20

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

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 22

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 23

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

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 25

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 26

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. no
- D. 143

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

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 28

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

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 30

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

Correct Answer: ACF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

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 36

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 37

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 38

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

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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

Correct Answer: D

Section: (none)

Explanation