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QUESTION 1

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

Correct Answer: C

QUESTION 2

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

QUESTION 3

The lack of which of the following components might make a virtual router less efficient than a physical router?

- A. ASIC
- B. Hardware MAC
- C. Jumbo frame
- D. MPLS

Correct Answer: A

QUESTION 4

A network technician is required to install a network device to provide service to an office area. The office area has 23 users and two printers that must be able to connect to the file server in a different building. Which of the following network devices should the technician use?

- A. Media converter
- B. Switch
- C. Bridge
- D. Wireless range extender

Correct Answer: B

QUESTION 5

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

Correct Answer: A

QUESTION 6

A network administrator notices a wireless network with the SSID HOME-33BC-5G that has a high signal strength and open authentication. When the administrator connects to the SSID, corporate servers can be accessed. Which of the following has the network administrator discovered?

- A. Evil twin
- B. Man in the middle
- C. Spoofing
- D. Rogue AP
- E. Wardriving

Correct Answer: D

QUESTION 7

Which of the following cables is MOST likely to be terminated into a patch panel?

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

Correct Answer: D

QUESTION 8

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

Correct Answer: AE

QUESTION 9

A technician is performing a site survey in an area of a university where both faculty and students are reporting poor performance of their wireless connections. The technician gathers the following data in the problem area: Which of the following would MOST likely resolve the issue?

AP1

SSID: FacultyAP
Wireless standard: 802.11n
Max data rate: 300Mbps
Frequency: 2.4GHz
Channel: 1
Signal strength: -40dB
SNR: -15dB
Number of clients: 13
Antenna type: (3x) Dipole

AP2

SSID: StudentAP
Wireless standard: 802.11n
Max data rate: 300Mbps
Frequency: 2.4GHz
Channel: 3
Signal strength: -46dB
SNR: -21dB
Number of clients: 14
Antenna type: (3x) Dipole

AP3

SSID: BuildingAutomationAP
Wireless standard: 802.11n
Max data rate: 300Mbps
Frequency: 2.4GHz
Channel: 2
Signal strength: -38dB
SNR: -13dB
Number of clients: 12
Antenna type: Dipole

- A. There are too many wireless clients. Increase the number of APs to handle the traffic load.
- B. The SNR is not at an acceptable level. Change the channel on the APs.
- C. The signal strength is too low. Replace the equipment with devices that have better radio antennas.
- D. The channel numbers on some APs are invalid. Switch AP2 and AP3 to use channel 1.
- E. The type of antenna is inappropriate for the environment. Switch to 13dBi Yagi antennas.

Correct Answer: B

QUESTION 10

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.

Correct Answer: D

QUESTION 11

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

Correct Answer: B

QUESTION 12

A company only wants preapproved laptops to be able to connect to a wireless access point. Which of the following should be configured?

- A. SSID disable
- B. ACL rules
- C. WPA encryption
- D. MAC filtering

Correct Answer: D

QUESTION 13

A user no longer has access to network resources after a recent office move, but all other users in the building are able to connect at 100MB connections. After further investigation, a network technician notices the following information:

Network information for the building:

VLAN	200
Network	10.1.206.0/24
Subnet mask	255.255.255.0

Wire maps results:

1	-	-	-	-	-	-	-	1
2	-	-	-	-	-	-	-	2
3	-	-	-	-	-	-	-	3
4	-	-	-	-	-	-	-	4
5	-	-	-	-	-	-	-	5
6	-	-	-	-	-	-	-	6
7	-	-	-	-	-	-	-	7
8	-	-	-	-	-	-	-	8

Cable distance:

225ft (69m)

Switchport configuration results:

```
fastethernet1/3/47
switchport
vlan 200
shutdown
```

Which of the following is causing the network connection issues?

- A. Open/short pins
- B. VLAN mismatch
- C. Distance limitation
- D. Crosstalk

E. Port configuration

Correct Answer: E

QUESTION 14

A senior technician is reconfiguring the company's firewall because a number of additional devices have been added to the network. The company has acquired a new VoIP phone system, and a group of junior technicians has set up an experimental lab with access to the Internet. Management has given the team latitude for research and development, but would like the company network to be secure and the performance to remain consistent with existing baselines. Which of the following would be the BEST method to reconfigure the network?

- A. The technician should put the junior team's lab in a VLAN and the phone system in the DMZ.
- B. The technician should put the junior team's lab in a DMZ and the phone system in a VLAN.
- C. The technician should put the junior team's lab in the LAN and the phone system in the WAN.
- D. The technician should put the junior team's lab in the WAN and the phone system in a WLAN

Correct Answer: B

QUESTION 15

A user has called the help desk with a problem reaching certain servers within the organization. The organization is using RFC 1819 for internal networks. The servers having trouble are configured with the following IP addresses: 192.130.

135. 5 and 192. 130. 135. 6.

The user cannot connect to the correct servers. Which of the following explain why this is happening to the user?

- A. The network has been configured with an inappropriate scheme
- B. The servers are periodical/ going offline and rejecting the connection.
- C. The default route in the user's computer points to the wrong upstream device.
- D. The IPS system is flagging the traffic as suspicious and terminating the connection.

Correct Answer: A

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