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QUESTION 1

A network administrator is assisting a user who is unable to access network services by using hostname on Host 1. Another user in the same office is able to access the network services with no issue on Host 2. The network administrator runs a command on the affected machine and the working machine and compares the following output:

Host 1			Host 2	
Description:	WiFi 6 AX200		Description:	WiFi 6 AX200
Physical Address:	ab:cd:ef:01:23:45		Physical Address:	54:32:01:fe:dc:ba
DHCP Enabled:	No		DHCP Enabled:	No
IPv4 Address:	192.168.0.155		IPv4 Address:	192.168.1.112
Subnet Mask:	255.255.254.0		Subnet Mask:	255.255.254.0
Default Gateway:	192.168.0.1		Default Gateway:	192.168.0.1
DNS Servers:	192.168.1.53		DNS Servers:	192.168.0.53

Which of the follow should the network administrator change to restore connectivity?

- A. Change the default gateway on Host 1 to 192.168.1.1.
- B. Change the IPv4 address on Host 2 to 192.168.0.112.
- C. Reconfigure the subnet masks on both hosts.
- D. Update the DNS server on Host 1 to 192.168.0.53.

Correct Answer: D

QUESTION 2

A technician needs to configure a routing protocol for an internet-facing edge router. Which of the following routing protocols will the technician MOST likely use?

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

Correct Answer: A

Border Gateway Protocol (BGP) is used to Exchange routing information for the internet and is the protocol used



between ISP which are different ASes. The protocol can connect together any internetwork of autonomous system using an arbitrary topology.

QUESTION 3

A user reports a weak signal when walking 20ft (61 m) away from the WAP in one direction, but a strong signal when walking 20ft in the opposite direction

The technician has reviewed the configuration and confirmed the channel type is correct

There is no jitter or latency on the connection.

Which of the following would be the MOST likely cause of the issue?

- A. Antenna type
- B. Power levels
- C. Frequency
- D. Encryption type

Correct Answer: A

The antenna type affects the signal strength and coverage of a WAP. Different types of antennas have different radiation patterns and gain, which determine how far and wide the signal can reach. If the user experiences a weak signal in one direction but a strong signal in the opposite direction, it could mean that the antenna type is not suitable for the desired coverage area. The technician should consider changing the antenna type to one that has a more balanced or directional radiation pattern. References: <https://community.cisco.com/t5/wireless-small-business/wap200-poor-signal-strength/td-p/1565796>

QUESTION 4

A technician is configuring a static IP address on a new device in a newly created subnet. The work order specifies the following requirements:

1.

The IP address should use the highest address available in the subnet.

2.

The default gateway needs to be set to 172.28.85.94.

3.

The subnet mask needs to be 255.255.255.224.

Which of the following addresses should the engineer apply to the device?

- A. 172.28.85.93
- B. 172.28.85.95



C. 172.28.85.254

D. 172.28.85.255

Correct Answer: A

255.255.255.224 /27 256 - 224= Block Size 32 Block Size Subnet Range:

172.28.85.0

172.28.85.32

172.28.85.64

172.28.85.96

172.28.85.128

Broadcast Range: -1 the Block size

172.28.85.31

172.28.85.63

172.28.85.95

172.28.85.127

Usable IP Range:

172.28.85.1 - 172.28.85.30

172.28.85.33 - 172.28.85.62

172.28.85.65 - 172.28.85.94

172.28.85.97 - 172.28.85.126

QUESTION 5

A network technician is connecting medical monitoring devices on a personal area network for patients\' phones. Which of the following technologies should be used?

A. Bluetooth

B. ROD

C. NFC

D. IR

Correct Answer: A



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