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Wired And Wireless Local Area Networks Quiz PDF

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Which of the following cable types is typically used in wired LANs?

◯ CoaxIAL

◯ Twisted Pair

◯ HDMI

◯ USB

Which frequency band is commonly used by Wi-Fi networks?

◯ 1 GHz

◯ 2.4 GHz

◯ 3.5 GHz

◯ 4.9 GHz

In a wired LAN, what device is used to connect multiple devices within the network?

◯ Modem

◯ Switch

◯ Access Point

◯ Repeater

Which of the following is a security protocol used in wireless networks?

◯ SSL

◯ WEP

◯ HTTPS

◯ FTP

How does the choice of frequency band (2.4 GHz vs. 5 GHz) affect the performance of a wireless LAN?

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Which of the following Wi-Fi standards support both 2.4 GHz and 5 GHz bands? (Select all that apply)

☐ 802.11 a
☐ 802.11 n
☐ 802.11 ac
☐ 802.11 b

Which security protocols are considered more secure for wireless networks? (Select all that apply)

☐ WEP
☐ WPA
☐ WPA2
☐ WPA3

What is a common topology used in wired LANs?

○ Mesh
○ Star
○ Tree
○ Hybrid

What are the advantages of using a wireless LAN? (Select all that apply)

☐ Increased mobility
☐ Easier scalability
☐ Higher speed than wired LAN
☐ Reduced installation cost

Which of the following are benefits of using a wired LAN? (Select all that apply)

☐ Higher security
☐ Greater mobility

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☐ Lower latency

☐ Easier installation

Describe the role of an access point in a wireless LAN.

Discuss the impact of network topology on the performance and reliability of a wired LAN.

Why might an organization choose to implement a hybrid network combining both wired and wireless technologies?

What are common issues that can affect wireless LAN performance? (Select all that apply)

☐ Signal interference

☐ Cable faults

☐ Connectivity drops

☐ Port failures

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Which Wi-Fi standard is known for operating on the 5 GHz band?

◯ 802.11 b
◯ 802.11 g
◯ 802.11 n
◯ 802.11 a

Explain the main differences between a wired LAN and a wireless LAN.

What is the most common technology used in wired LANs?

◯ Bluetooth
◯ Ethernet
◯ Wi-Fi
◯ NFC

What does SSID stand for in wireless networking?

◯ Secure System Identification
◯ Service Set Identifier
◯ Standard Signal Identification
◯ System Service ID

Which components are essential for a wireless LAN? (Select all that apply)

☐ Router
☐ Access Point
☐ Ethernet Cable
☐ SSID

What are the potential security risks associated with wireless LANs, and how can they be mitigated?

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