

# **Ccna - Network Troubleshooting**

## **Section 1: Multiple Choice**

**1. What is the primary purpose of a firewall in a network security infrastructure?**

**Ans.** b) Filtering and controlling network traffic.

**2. What type of attack involves flooding a network with excessive traffic to disrupt normal operation?**

**Ans.** a) Denial of Service (DoS)

**3. Which encryption protocol is commonly used to secure wireless network communications?**

**Ans.** b) WPA (Wi-Fi Protected Access)

**4. What is the purpose of a VPN (Virtual Private Network) in a network security context?**

**Ans.** A VPN (Virtual Private Network) creates a secure, encrypted connection over the internet to protect data and enhance privacy

## **Section 2: True or false**

5. True or False: Patch management is the process of regularly updating software and firmware to address security vulnerabilities and improve system performance.

**Ans. True**

6. True or False: A network administrator should perform regular backups of critical data to prevent data loss in the event of hardware failures, disasters, or security breaches.

**Ans. True**

7. True or False: Traceroute is a network diagnostic tool used to identify the route and measure the latency of data packets between a source and destination device.

**Ans. True**

## **Section 3: Short Answer**

**8. Describe the steps involved in conducting a network vulnerability Assignment.**

**Define Scope:** Decide what parts of the network you'll assess.

**Gather Information:** Collect details about the network (IP addresses, devices, etc.).

**Identify Vulnerabilities:** Use tools to find security weaknesses.

**Analyze Risks:** Determine which vulnerabilities are most critical.

**Report Findings:** Document the vulnerabilities and how to fix them.

**Fix Vulnerabilities:** Implement the recommended fixes.

**Verify Fixes:** Check to make sure the vulnerabilities are resolved.

**Monitor Continuously:** Regularly check for new vulnerabilities.

## **Section 4: Practical Application**

**9. Demonstrate how to troubleshoot network connectivity issues using the ping command.**

**Ans. Done**

## **Section 5: Essay**

**10. Discuss the importance of regular network maintenance and the key tasks involved in maintaining network infrastructure**

**Ans. Done**

**1. Which of the following best describes the purpose of a VPN (Virtual Private Network)?**

**Ans. a) Encrypting network traffic to prevent eavesdropping**