Networking Test

**Network Fundamentals**

3.1.2 Outline the importance of standards in the construction of networks.

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3.1.3 Describe how communication over networks is broken down into different layers.

2. What is the purpose of the OSI Model?

3.1.5 Evaluate the use of a VPN.

3. Evaluate the use of a VPN.

**Data Transmission**

3.1.6 Define the terms: protocol, data packet.

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5. Explain why protocols are necessary.

3.1.9 Explain why compression of data is often necessary when transmitting across a network.

6. Explain why compression of data is often necessary when transmitting across a network.

3.1.11 Explain how data is transmitted by packet switching.

7. Explain how data is transmitted by packet switching.

**Wireless Networking**

3.1.12 Outline the advantages and disadvantages of wireless networks.

8. Outline the advantages and disadvantages of wireless networks.

3.1.13 Describe the hardware and software components of a wireless network.

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3.1.15 Describe the different methods of network security.

10. Describe encryption, authentication, and MAC address filtering.