

OSI Model Quiz

Name: _____ Date: _____

1. The number of layers in the OSI Model is:
 - a. 3
 - b. 8
 - c. 7
 - d. 4
2. What is a MAC address?
 - a. A unique TCP/IP address for every device on the Internet
 - b. A unique subnet mask for every device on the Internet
 - c. A unique address for every device on the Internet
 - d. An address that matches another device it is communicating with

3. OSI stands for

O	S	I
---	---	---

4. What layers are referred to as the hardware layers?
 - a. Physical
 - b. Application
 - c. Presentation
 - d. Data Link
 - e. Network
 - f. Transport
 - g. Session
5. What layers are referred to as the Software layers
 - a. Physical
 - b. Application
 - c. Presentation
 - d. Data Link
 - e. Network
 - f. Transport
 - g. Session
6. What two networking items function on the Data Link Layer?
 - a. Bridge
 - b. Hub
 - c. Repeater
 - d. Switch
 - e. Router

OSI Model Quiz

7. What are the two sub layers of the Data Link Layer?
 - a. LIC
 - b. LLC
 - c. MDC
 - d. MAC

8. What networking item functions on the Network Layer?
 - a. Router
 - b. Hub
 - c. Wireless NIC
 - d. Bridge

9. What networking item is located in the Personal Computer (PC)?
 - a. Repeater
 - b. Switch
 - c. Wireless NIC
 - d. Cable

10. What is the function of the Physical Layer of the OSI Model?

--

11. What is the function of the Data Link Layer of the OSI Model?

--

12. Name any five components of a Data Frame.

OSI Model Quiz

13. What is the function of the Network Layer of the OSI Model?

14. What is the function of the Transport Layer of the OSI Model?

15. What is the function of the Session Layer of the OSI Model?

16. What is the function of the Presentation Layer of the OSI Model?

17. What is the function of the Application Layer of the OSI Model?

18. The Police station wants a redundant network with three layers of communication. All of their computers have a single embedded NIC. There are 18 computers in the operations room; there are 7 detective stations with four computers each. The maintenance department has 14 computers and the administration office has 43 computers. We need to order devices along with an addition 10% for spares. How may NICs do we need to order? Show your work.