

Module 3 Review

1. What is an IP address?
 - a. What is the purpose?
 - b. What is the structure?
 - c. What is the difference between IPv4 and IPv6?
 - i. Advantages
 - ii. disadvantages
 - d. What is the highest number used in IPv4?
 - e. What are the classes of IP addresses? A, B, C, D?
2. CIDR and Subnet Mask.
3. Network Address Translation
4. DNS
5. What is a port?
6. Port Security
7. Data Loss Prevention
8. What is a MAC address?
 - a. How is it assigned?
 - b. What is the length?
 - c. Can it be changed?
 - d. What is the purpose?
9. Difference between TCP and UDP.
 - a. How are TCP connections established?
 - b. What are common types of TCP connections?
 - c. What are common types of UDP connections?
 - d. Difference between a connectionless and connection oriented service
10. What are the differences between these network devices.
 - a. Gateway
 - b. Bridge
 - c. Router
 - d. Switch
 - e. Repeater
 - f. Hub
 - g. VPN
 - h. Firewall
 - i. DMZ
 - j. SSL
 - k. TLS
11. What is a wireless network?
 - a. Advantages
 - b. Disadvantages
12. Define and describe the following.
 - a. Phishing
 - b. Pharming
 - c. Whaling

- d. Wardriving
 - e. Spoofing
 - f. Virus
 - g. Worm
 - h. Trojan
 - i. R.A.T.
13. Principles of Authentication
 14. Principles of Password security
 15. Incident response evidence collection
 16. What is Personally Identifiable Information?
 - a. Risks
 - b. Types
 - c. Examples
 17. What is TCP/IP
 - a. What does it do?
 - b. When was it invented?
 - c. Who invented it?
 - d. What are the layers?
 - e. What protocols are associated with each layer?
 18. Internet Layer
 19. Transport Layer
 20. Application Layer
 21. Link Layer
 22. What is a network collision?
 23. What are 5 types of networks? (each are 3 letter acronyms)
 24. Network Topologies
 - a. Star
 - b. Ring
 - c. Mesh
 - d. BUS
 - e. Hybrid
 25. What is a datacenter and its purpose?
 26. What is troubleshooting?
 27. What are the steps of troubleshooting?
 28. From the lecture – what are the 6 principles of dealing with customers
 29. What mnemonic sentence was used in the lecture to remember the 7 layers of the OSI model?
 - a. What are the seven layers?
 30. What is bandwidth? How is it measured?
 31. What is a protocol?
 32. Know how to convert to and from binary and decimal.
 - a. Base10
 - b. Base2
 - c. Base16
 33. Protocols – what are they and what is the standard port

- a. HTTP
- b. HTTPS
- c. HTMP
- d. URL
- e. FTP
- f. SMTP
- g. DHCP
- h. P2P
- i. VLAN
- j. SSH
- k. RDP
- l. 1053
- m. 7850
- n. 161

34. Commands

- a. ipconfig
- b. Nslookup
- c. Ping
- d. Hostname
- e. Tracert
- f. Netstat

35. Social Engineering

36. Denial of Service/DDOS

37. Difference between a Vulnerability/Threat/Exploit

38. Zero-Day

39. Principles for securing your network

40. Securing an operating system best practices