Multiple Choice Questions

- 1. Which component of the CIA triad ensures that changes to data are reversible if made in error?
 - a. a) Confidentiality
 - b. b) Integrity
 - c. c) Availability
 - d. d) Accountability
- 2. What is the primary purpose of reconnaissance in ethical hacking?
 - a. a) Exploiting vulnerabilities
 - b. b) Gathering target information
 - c. c) Covering tracks
 - d. d) Installing backdoors
- 3. Which of the following best describes the role of non-repudiation in information security?
 - a. a) Ensuring data availability
 - b. b) Preventing unauthorized data modification
 - c. c) Providing proof of data origin
 - d. d) Ensuring data redundancy
- 4. What distinguishes passive footprinting from active footprinting?
 - a. a) Passive footprinting targets applications, while active targets networks.
 - b. b) Passive footprinting involves indirect methods, while active involves direct interaction.
 - c. c) Passive footprinting is automated, while active requires manual effort.
 - d. d) Passive footprinting focuses on vulnerability exploitation.
- 5. Which tool is commonly used for DNS footprinting?
 - a. a) Nessus
 - b. b) nslookup
 - c. c) Metasploit
 - d. d) Wireshark
- 6. What is a key objective of using the Harvester in footprinting?
 - a. a) Identifying open ports on a target system
 - b. b) Collecting information like emails and subdomains
 - c. c) Detecting network intrusions
 - d. d) Exploiting vulnerabilities in web servers
- 7. What scanning technique uses FIN, URG, and PSH flags to identify closed ports?
 - a. a) SYN Scan

- b. b) Full Connect Scan
- c. c) Xmas Scan
- d. d) UDP Scan
- 8. What is the primary role of a vulnerability scanner like Nessus?
 - a. a) Exploiting vulnerabilities
 - b. b) Scanning for malware
 - c. c) Identifying known security weaknesses
 - d. d) Cracking passwords
- 9. Which of the following is NOT a stage of the Cyber Kill Chain?
 - a. a) Weaponization
 - b. b) Installation
 - c. c) Exploitation
 - d. d) Data Reconciliation
- 10. Which of the following would be considered a compensating control?
 - a. a) Using a backup power supply
 - b. b) Enabling multifactor authentication
 - c. c) Implementing a firewall
 - d. d) Creating detailed access logs
- 11. How does traceroute contribute to network footprinting?
 - a. a) By identifying vulnerable software versions
 - b. b) By revealing the path packets take through the network
 - c. c) By scanning for open ports
 - d. d) By enumerating DNS records
- 12. What is the purpose of WHOIS lookups in footprinting?
 - a. a) Identifying active hosts in a subnet
 - b. b) Obtaining domain registration details
 - c. c) Detecting open ports on a system
 - d. d) Exploiting weak credentials
- 13. What type of scan sends SYN packets but does not complete the handshake?
 - a. a) Full Connect Scan
 - b. b) Stealth Scan
 - c. c) Xmas Scan
 - d. d) ACK Scan
- 14. Which of the following is an example of a deterrent security control?
 - a. a) Installing an IDS
 - b. b) Enforcing strict access controls
 - c. c) Placing warning signs on server rooms
 - d. d) Configuring regular data backups

- 15. What kind of vulnerabilities does DNS poisoning exploit?
 - a. a) Misconfigured firewalls
 - b. b) Caching mechanisms in DNS resolvers
 - c. c) Weak encryption algorithms
 - d. d) Authentication protocols
- 16. In what way does the Cyber Kill Chain's "Weaponization" stage differ from "Delivery"?
 - a. a) Weaponization involves deploying the attack payload, while Delivery identifies the target.
 - b. b) Weaponization creates the attack payload, while Delivery transmits it to the target.
 - c. c) Weaponization identifies vulnerabilities, while Delivery exploits them.
 - d. d) Weaponization installs the payload, while Delivery secures the target.
- 17. What is the difference between vulnerability scanning and penetration testing?
 - a) Vulnerability scanning identifies weaknesses, while penetration testing exploits them.
 - b. b) Vulnerability scanning uses manual methods, while penetration testing is automated.
 - c. c) Vulnerability scanning targets networks, while penetration testing targets applications.
 - d. d) Vulnerability scanning is destructive, while penetration testing is not.
- 18. Which of these tools is primarily used for subdomain enumeration?
 - a. a) Sublist3r
 - b. b) hping
 - c. c) Nikto
 - d. d) Masscan
- 19. How does defense in depth enhance organizational security?
 - a. a) By employing a single robust control
 - b. b) By using multiple overlapping controls
 - c. c) By automating threat detection
 - d. d) By minimizing operational costs
- 20. What is the key difference between reconnaissance and scanning?
 - a) Reconnaissance focuses on exploiting systems, while scanning focuses on mitigation.
 - b. b) Reconnaissance is passive, while scanning involves active interactions.
 - c. c) Reconnaissance uses network tools, while scanning uses application tools.
 - d. d) Reconnaissance identifies vulnerabilities, while scanning resolves them.