

# Ethical Hacking - Week 1 MCQ Collection

## (35+ Questions)

**1. Which term describes breaching the security of software or systems?**

- A. Spoofing
- B. Hacking
- C. Cracking
- D. Port scanning

**Answer: C**

**2. Which of the following involves faking an IP address in a datagram?**

- A. Spoofing
- B. Cracking
- C. DoS
- D. Scanning

**Answer: A**

**3. What is a 'backdoor' in the context of cybersecurity?**

- A. A password
- B. An open-source tool
- C. A hidden way to access systems
- D. A type of firewall

**Answer: C**

**4. Which term refers to flooding a host with traffic to disrupt service?**

- A. Spoofing
- B. DoS attack
- C. Phishing
- D. Malware

**Answer: B**

**5. What is port scanning used for?**

- A. Encrypting data
- B. Flooding the network
- C. Searching for vulnerabilities
- D. Monitoring logs

**Answer: C**

**6. Who are script kiddies?**

- A. Professionals who write code
- B. Kids learning to program
- C. Novices who copy tools/techniques
- D. Antivirus developers

**Answer: C**

**7. Which network type spans a large geographical area?**

- A. LAN
- B. MAN
- C. WAN
- D. PAN

**Answer: C**

**8. In circuit switching, which step occurs before data transfer?**

- A. Data routing
- B. Packet buffering
- C. Connection establishment
- D. Header stripping

**Answer: C**

**9. Which is a drawback of circuit switching?**

- A. No dedicated channel
- B. Packets arrive out of order
- C. Inefficient for bursty data
- D. Requires routing tables

**Answer: C**

**10. Which of these is most suitable for data communication?**

- A. Circuit switching
- B. Packet switching
- C. Manual switching
- D. Signal modulation

**Answer: B**

**11. In datagram approach, packets:**

- A. Follow a fixed path
- B. Are routed dynamically
- C. Always arrive in order
- D. Are encrypted at each node

**Answer: B**

**12. Which layer is responsible for session management in OSI model?**

- A. Transport
- B. Session
- C. Presentation
- D. Network

**Answer: B**

**13. Which OSI layer converts data to a machine-independent format?**

- A. Session
- B. Data Link
- C. Presentation
- D. Application

**Answer: C**

**14. Which internetworking device works at Data Link Layer?**

- A. Router
- B. Bridge
- C. Hub
- D. Gateway

**Answer: B**

**15. TCP is classified as which type of protocol?**

- A. Connectionless
- B. Secure
- C. Connection-oriented
- D. Firewall

**Answer: C**

**16. UDP is:**

- A. Reliable
- B. Connection-oriented
- C. Slow
- D. Unreliable and connectionless

**Answer: D**

**17. Which protocol is used for mapping MAC addresses to IP addresses?**

- A. TCP
- B. RARP
- C. ICMP
- D. ARP

**Answer: D**

**18. Which field in IP header ensures packets do not loop forever?**

- A. Version
- B. TTL
- C. Fragment Offset
- D. Service Type

**Answer: B**

**19. Maximum size of an IP datagram is:**

- A. 1024 bytes
- B. 32768 bytes
- C. 65536 bytes
- D. 8192 bytes

**Answer: C**

**20. Header checksum in IP is calculated using:**

- A. XOR
- B. 1's complement addition
- C. CRC
- D. Binary masking

**Answer: B**

**21. Which tool is used to analyze packets?**

- A. Telnet
- B. ssh
- C. Wireshark
- D. nmap

**Answer: C**

**22. Which protocol notifies routers of multicast group memberships?**

- A. ARP
- B. ICMP
- C. IGMP
- D. RARP

**Answer: C**