



Ethical Hacking

Assignment- Week 4

TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10

Total mark: 10 x 1 = 10

QUESTION 1:

Which of the following statement(s) is/are **true**?

- a. A hypervisor allows one host to run multiple virtual machines by sharing resources.
- b. A hypervisor requires one physical machine per virtual machine.
- c. A hypervisor can only run one virtual machine at a time.
- d. Kali-linux is hack proof hypervisor.
- e. None of these.

Correct Answer: a

Detailed Solution: Hypervisor or Virtual Machine Monitor is a software tool that allows the creation and running of one or more virtual machines (VMs) on a computer system; each system can use the resources of main system (host system) such as memory, network interface, storage etc. This is very essential for security practice. Kali Linux is a specific Linux distribution based on Debian. It consists of a large collection of tools for carrying out penetration testing, security research, computer forensics, etc. The correct option is (a).

QUESTION 2:

Which of the following statement(s) is/are **true** about “Passive Reconnaissance”?

- a. Information about the target is collected indirectly.
- b. Information about the target is collected directly.
- c. There is a chance of detection.
- d. There is no chance of detection.

Correct Answer: a, d

Detailed Solution: Reconnaissance is the process of gathering information about a target network or system. In passive reconnaissance the information is collected indirectly, i.e. web browsing. The attacker and victim do not communicate directly, and thus there is no chance of detection. In active reconnaissance, we collect information about a target directly, e.g., nmap scan. As the attacker and victim communicate directly, there is a chance of detection.



The true options are (a) and (d).

QUESTION 3:

Which operator is used in Google to search for an exact phrase?

- a. AND
- b. " " (double quotes)
- c. +
- d. ()

Correct Answer: b

Detailed Solution: Putting a phrase inside double quotes tells Google to search for that exact sequence of words in that order.

The correct option is (b).

QUESTION 4:

What does a WHOIS lookup provides?

- a. Website loading speed.
- b. Source code of webpage
- c. Historical screenshot of website
- d. Ownership and registration details of a domain.

Correct Answer: d

Detailed Solution: WHOIS is a tool used to find details like domain owner name, registrar, registration date, and expiration date.

The correct option is (d).

QUESTION 5:

Which search will show results from only the website swayam.gov.in?

- a. swayam.gov.in
- b. filetype:swayam.gov.in
- c. site:swayam.gov.in
- d. None of these



Correct Answer: c

Detailed Solution: just writing the website may show result from other websites as well, site operator limits the search to a specific website or domain, filetype operator filters by file type and not domain.

The correct option is (c).

QUESTION 6:

What is the main function of Archive.org's Wayback Machine?

- a. To view historical version of the website
- b. To scan website for malware
- c. To test internet speed.
- d. To monitor websites uptime

Correct Answer: a

Detailed Solution: The Wayback Machine allows users to see snapshots of websites from the past, useful for research, legal reference, or digital preservation.

The correct option is (a).

QUESTION 7:

An ICMP sweep scan is used to:

- a. Block TCP connection
- b. Scan for DNS servers
- c. Detect live hosts
- d. Detect phishing emails.

Correct Answer: c

Detailed Solution: ICMP sweep scan is used to detect live hosts in a network. In ICMP sweep, the attacker sends out an ICMP ECHO request packet (ICMP type 8) to the target. If it receives an ICMP ECHO reply packet, it assumes that the target is alive.

The correct option is (c).



QUESTION 8:

Which of the following tools is primarily used for network scanning, including host discovery and port scanning?

- a. Wireshark
- b. DNSEnum
- c. Notepad++
- d. None of these

Correct Answer: d

Detailed Solution: Wireshark is a packet capturing and analysis tool — it does not perform scanning (like discovering hosts or ports). DNSEnum is used for DNS enumeration, not general port or host scanning. Notepad++ is simply a text/code editor. Tools like Nmap and Nessus are specifically used for network scanning, including host discovery and port scans.

The correct option is (d).

QUESTION 9:

Which of the following option tells NMAP to skip port scanning and perform only host discovery?

- a. -sS
- b. -O
- c. -sn
- d. -p

Correct Answer: c

Detailed Solution: -sn tells Nmap to skip port scanning and perform only host discovery (also known as ping scan). -sS → SYN scan (port scan); -O → OS detection; -p → specifies ports to scan.

The correct option is (c).

QUESTION 10:

How many ports does NMAP scan by default when no specific port option is provided_____?

Correct Answer: 1000

Detailed Solution: Nmap scans the 1,000 most commonly used ports by default for TCP and UDP.



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