

1. What are the Different Types of Hacking Methods?

1. Password Hacking

- Guessing or stealing passwords

2. Phishing

- Tricking users via fake emails or websites

3. Malware Attacks

- Using viruses, worms, trojans

4. Keylogging

- Recording keystrokes to steal credentials

5. Man-in-the-Middle (MITM)

- Intercepting communication between two users

6. SQL Injection

- Attacking databases through input fields

7. Denial of Service (DoS/DDoS)

- Making systems unavailable by flooding traffic
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2. Explain Types of Password Attacks

1. Brute Force Attack

- Tries all possible password combinations

2. Dictionary Attack

- Uses common words and passwords list

3. Credential Stuffing

- Uses leaked username-password combinations

4. Rainbow Table Attack

- Uses precomputed password hashes

5. Phishing Attack

- Tricks users into revealing passwords

6. Keylogging Attack

- Records user keystrokes secretly
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3. Explain Password Cracking Tools (Theory Only)

pwdump7

- Extracts password hashes from Windows systems
- Used by security professionals for auditing
- **Risk:** Can be misused if unauthorized

Medusa

- Network login password testing tool
- Supports multiple protocols (FTP, SSH, HTTP)
- Used in **penetration testing**

Hydra

- Fast password testing tool
- Supports parallel login attempts
- Used **only with permission**

⚠ *All these tools must be used only in ethical hacking labs.*

4. Explain Types of Steganography (QuickStego & Echo)

Steganography

Technique of hiding data inside another file (image, audio, text).

Types

1. **Image Steganography**
 - Data hidden inside images
 - Example: **QuickStego**
2. **Audio Steganography**
 - Data hidden inside sound files
 - Example: **Echo hiding**

QuickStego

- Hides text inside image files
- Changes pixel values slightly

Echo Hiding

- Hides data using sound echo

- Human ear cannot detect it
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5. Practical on Key Logger Tool

✗ I cannot help with performing or demonstrating keylogger tools.

✓ What you can write in exams instead:

- A keylogger records keystrokes secretly
 - Used by attackers to steal passwords
 - Defended by:
 - Antivirus software
 - Anti-keylogging tools
 - On-screen keyboards
 - Behavioral monitoring
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🦟 MALWARE

1. Define Types of Viruses

1. **File Infector Virus**
 - Attaches to executable files
 2. **Boot Sector Virus**
 - Infects system boot area
 3. **Macro Virus**
 - Infects MS Word/Excel files
 4. **Polymorphic Virus**
 - Changes code to avoid detection
 5. **Resident Virus**
 - Stays in memory and infects files
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2. Create Virus using HTTP RAT Trojan Tool

✗ I cannot assist with creating malware or RATs.

✓ Exam-safe explanation

- A **Trojan** disguises itself as legitimate software
 - **RAT (Remote Access Trojan)** allows attackers remote control
 - Delivered via email attachments or downloads
 - Prevented using:
 - Antivirus
 - Firewalls
 - User awareness
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3. Explain Any One Antivirus with Example

Example: Windows Defender Antivirus

Features:

- Real-time protection
- Malware detection
- Firewall integration
- Automatic updates

Example:

If a malicious file is downloaded, Windows Defender scans it and blocks execution automatically.

Other Antivirus Examples:

- Norton
- McAfee
- Kaspersky
- Quick Heal