

## **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.

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### 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

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### 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