

## **EC-Council**

	Domain	Sub Domain	Description	Number of Questions	Weightage (%)
1.	Information Security and Ethical Hacking Overview	Introduction to Ethical Hacking	<ul> <li>Information Security Overview</li> <li>Cyber Kill Chain Concepts</li> <li>Hacking Concepts</li> <li>Ethical Hacking Concepts</li> <li>Information Security Controls</li> <li>Information Security Laws and Standards</li> </ul>	8	6%
2.	Reconnaissance Techniques	Footprinting and Reconnaissance	<ul> <li>Footprinting Concepts</li> <li>Footprinting Methodology</li> <li>Footprinting through Search Engines</li> <li>Footprinting through Web Services</li> <li>Footprinting through Social Networking Sites</li> <li>Website Footprinting</li> <li>Email Footprinting</li> <li>Whois Footprinting</li> <li>DNS Footprinting</li> <li>Network Footprinting</li> <li>Footprinting through Social Engineering</li> <li>Footprinting Tools</li> <li>Footprinting Countermeasures</li> </ul>	10	21%
		Scanning Networks	<ul> <li>Network Scanning Concepts</li> <li>Scanning Tools</li> <li>Host Discovery</li> <li>Port and Service Discovery</li> <li>OS Discovery (Banner Grabbing/OS Fingerprinting)</li> <li>Scanning Beyond IDS and Firewall</li> <li>Draw Network Diagrams</li> </ul>	10	
		Enumeration	<ul> <li>Enumeration Concepts</li> <li>NetBIOS Enumeration</li> <li>SNMP Enumeration</li> <li>LDAP Enumeration</li> <li>NTP and NFS Enumeration</li> <li>SMTP and DNS Enumeration</li> <li>Other Enumeration Techniques (IPsec, VoIP, RPC, Unix/Linux, Telnet, FTP, TFTP, SMB, IPv6, and BGP enumeration)</li> <li>Enumeration Countermeasures</li> </ul>	6	
3.	System Hacking Phases and Attack Techniques	Vulnerability Analysis	<ul> <li>Vulnerability Assessment Concepts</li> <li>Vulnerability Classification and Assessment Types</li> <li>Vulnerability Assessment Solutions and Tools</li> <li>Vulnerability Assessment Reports</li> </ul>	9	17%

	System Hacking	<ul> <li>System Hacking Concepts</li> <li>Gaining Access</li> <li>Cracking Passwords</li> <li>Vulnerability Exploitation</li> <li>Escalating Privileges</li> <li>Maintaining Access</li> <li>Executing Applications</li> <li>Hiding Files</li> <li>Clearing Logs</li> </ul>	6	
	Malware Threats	<ul> <li>Malware Concepts</li> <li>APT Concepts</li> <li>Trojan Concepts</li> <li>Virus and Worm Concepts</li> <li>File-less Malware Concepts</li> <li>Malware Analysis</li> <li>Malware Countermeasures</li> <li>Anti-Malware Software</li> </ul>	6	
4. Network and Perimeter Hacking	Sniffing	<ul> <li>Sniffing Concepts</li> <li>Sniffing Technique: MAC Attacks</li> <li>Sniffing Technique: DHCP Attacks</li> <li>Sniffing Technique: ARP Poisoning</li> <li>Sniffing Technique: Spoofing Attacks</li> <li>Sniffing Technique: DNS Poisoning</li> <li>Sniffing Tools</li> <li>Sniffing Countermeasures</li> <li>Sniffing Detection Techniques</li> </ul>	3	14%
	Social Engineering	<ul> <li>Social Engineering Concepts</li> <li>Social Engineering Techniques</li> <li>Insider Threats</li> <li>Impersonation on Social</li> <li>Networking Sites</li> <li>Identity Theft</li> <li>Social Engineering Countermeasures</li> </ul>	5	
	Denial-of-Service	<ul> <li>DoS/DDoS Concepts</li> <li>DoS/DDoS Attack Techniques</li> <li>Botnets</li> <li>DDoS</li> <li>Case Study</li> <li>DoS/DDoS Attack Tools</li> <li>DoS/DDoS Countermeasures</li> <li>DoS/DDoS Protection Tools</li> </ul>	2	
	Session Hijacking	<ul> <li>Session Hijacking Concepts</li> <li>Application Level Session Hijacking</li> <li>Network Level Session Hijacking</li> <li>Session Hijacking Tools</li> <li>Session Hijacking Countermeasures</li> </ul>	3	

		Evading IDS, Firewalls, and Honeypots	<ul> <li>IDS, IPS, Firewall, and Honeypot Concepts</li> <li>IDS, IPS, Firewall, and Honeypot Solutions</li> <li>Evading IDS</li> <li>Evading Firewalls</li> <li>IDS/Firewall Evading Tools</li> <li>Detecting Honeypots</li> <li>IDS/Firewall Evasion Countermeasures</li> </ul>	5	
Α	Web Application Hacking	Hacking Web Servers	<ul> <li>Web Server Concepts</li> <li>Web Server Attacks</li> <li>Web Server Attack Methodology</li> <li>Web Server Attack Tools</li> <li>Web Server Countermeasures</li> <li>Patch Management</li> <li>Web Server Security Tools</li> </ul>	8	16%
		Hacking Web Applications	<ul> <li>Web App Concepts</li> <li>Web App Threats</li> <li>Web App Hacking Methodology</li> <li>Footprint Web Infrastructure</li> <li>Analyze Web Applications</li> <li>Bypass Client-Side Controls</li> <li>Attack Authentication Mechanism</li> <li>Attack Authorization Schemes</li> <li>Attack Access Controls</li> <li>Attack Session Management Mechanism</li> <li>Perform Injection Attacks</li> <li>Attack Application Logic Flaws</li> <li>Attack Shared Environments</li> <li>Attack Database Connectivity</li> <li>Attack Web App Client</li> <li>Attack Web Services</li> <li>Web API, Webhooks and Web Shell</li> <li>Web App Security</li> </ul>	8	
		SQL Injection	<ul> <li>SQL Injection Concepts</li> <li>Types of SQL Injection</li> <li>SQL Injection Methodology</li> <li>SQL Injection Tools</li> <li>Evasion Techniques</li> <li>SQL Injection Countermeasures</li> </ul>	4	
	Vireless Network Hacking	Hacking Wireless Networks	<ul> <li>Wireless Concepts</li> <li>Wireless Encryption</li> <li>Wireless Threats</li> <li>Wireless Hacking Methodology</li> <li>Wireless Hacking Tools</li> <li>Bluetooth Hacking</li> <li>Wireless Countermeasures</li> <li>Wireless Security Tools</li> </ul>	8	6%
lo	Mobile Platform, oT, and OT Hacking	Hacking Mobile Platforms	<ul> <li>Mobile Platform Attack Vectors</li> <li>Hacking Android OS</li> <li>Hacking iOS</li> <li>Mobile Device Management</li> <li>Mobile Security Guidelines and Tools</li> </ul>	4	8%

IoT and OT	<ul> <li>loT Concepts</li> <li>loT Attacks</li> <li>loT Hacking Methodology</li> <li>loT Hacking Tools</li> <li>loT Countermeasures</li> <li>OT Concepts</li> <li>OT Attacks</li> <li>OT Hacking Methodology</li> <li>OT Hacking Tools</li> <li>OT Countermeasures</li> </ul>	6	
8. Cloud Computing Cloud Com	<ul> <li>Cloud Computing Concepts</li> <li>Container Technology</li> <li>Serverless Computing</li> <li>Cloud Computing Threats</li> <li>Cloud Hacking</li> <li>Cloud Security</li> </ul>	7	6%
9. Cryptography Cryptograp	<ul> <li>Cryptography Concepts</li> <li>Encryption Algorithms</li> <li>Cryptography Tools</li> <li>Public Key Infrastructure (PKI)</li> <li>Email Encryption</li> <li>Disk Encryption</li> <li>Cryptanalysis</li> <li>Countermeasures</li> </ul>	7	6%