

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER - 2025**

ETHICAL HACKING

[Maximum marks: 75]

[Time: 3 Hours]

PART A

I. Answer all the following questions in one word or one sentence. Each question carries 1 mark

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1	Define the role of an Ethical Hacker.	M1.01	R
2	Name one model used by Ethical hackers who perform penetration tests.	M1.01	R
3	Define CIA triad in cyber security.	M1.03	R
4	Define Footprinting in hacking.	M2.01	R
5	Define DNS.	M2.02	R
6	Write the full name of CIFS.	M3.01	R
7	Write the full name of NTFS.	M3.01	R
8	Write the full name of OWASP.	M4.02	R
9	Define SSID in Wireless LAN.	M4.03	R

PART B

II. Answer any eight questions from the following. Each question carries 3 marks.

(8 x 3 = 24 Marks)

		Module outcome	Cognitive level
1	List any three Malicious Software.	M1.01	R
2	Compare the role of Ethical hacker and cracker.	M1.01	U
3	Explain different types of hackers.	M1.01	U
4	Explain any three methods of protection from malwares.	M1.03	U
5	Explain any three Footprinting tools.	M2.01	U
6	Explain how DNS is a major area of potential vulnerability for network attacks.	M2.02	U
7	Explain the use of null session.	M3.01	U
8	Explain Common Gateway Interface.	M4.01	U
9	Outline the components of a Wireless network.	M4.02	U
10	Explain Wardriving.	M4.02	U

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III	Define malicious softwares and give any three features. OR	M1.03	U
IV	Explain any two Network and System Attacks.	M1.04	U
V	Explain any two attacking techniques used for Social Engineering. OR	M2.03	U
VI	Give the use of Nmap and explain any two features.	M2.01	U
VII	Explain how social engineering is used as a hacking method. OR	M2.03	U
VIII	Explain any two types of port scans.	M2.04	U
IX	Explain any seven good password policies. OR	M3.02	U
X	Explain any two best practices for hardening Windows OS.	M3.02	U
XI	Explain Windows vulnerabilities in a) NetBIOS b) RPC OR	M3.01	U
XII	Explain any two countermeasures against remote attacks on Linux systems.	M3.04	U
XIII	Summarize any two most Critical Web Application Security Vulnerabilities. OR	M4.02	U
XIV	Explain three technologies used in WLAN.	M4.03	U
