

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER – 2024**

**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 ‘one’ mark.**

**(9 x 1 = 9 Marks)**

		Module Outcome	Cognitive level
1.	Which element of the CIA Triad ensures that information is only accessible to those who have the proper authorization?	M1.04	R
2.	What type of attack involves overwhelming a network or system with excessive traffic, making it unavailable to users?	M1.04	R
3.	A type of DNS attack that allows an attacker to gain access to all of the DNS records for a particular domain is called.....	M2.02	R
4.	.....is a type of social engineering attack in which the attacker follows closely behind an authorized person to gain access to a restricted area.	M2.03	U
5.	.....is a technique that allows an attacker to send IP packets that appear to be from a different source than they actually are	M2.04	U
6.	List any two types of file systems in Linux.	M3.03	R
7.	Which Linux command is used to update the package repositories and install available updates?	M3.04	R
8.	List any two webserver attack tools.	M4.02	R
9.	What is a common technique used in web server hacking to discover hidden directories and files?	M4.02	R

**PART-B**

**II. Answer any ‘eight’ questions from the following. Each question carries ‘three’ marks.**

**(8 x 3 = 24 Marks)**

		Module Outcome	Cognitive level
1.	Compare the terms script kiddies and white hat hacker.	M1.01	U
2.	Write about phishing.	M2.03	R
3.	Write about Server message block in windows OS.	M3.01	R
4.	Recall any three methods in password policy to strengthen user authentication in a network.	M3.02	R
5.	Explain the windows vulnerability based on remote procedure call.	M3.01	U
6.	Give any two advantages of NTFS over FAT32.	M3.01	R
7.	Compare sniffing and pharming in web server attacks.	M4.02	U
8.	Show the effects of a successful web server attack?	M4.02	R
9.	Summarize any three tools for war driving.	M4.04	U
10.	Explain any two components of a wireless network.	M4.03	U

**PART-C**

**Answer 'all' questions from the following. Each question carries 'seven' marks.**

**(6 x 7 = 42 Marks)**

		<small>Module Outcome</small>	<small>Cognitive level</small>
III.	Compare virus and worm.  <b>OR</b>	M1.03	U
IV.	Explain the different current cyber security issues.	M1.02	U
V.	Explain any two password cracking attacks  <b>OR</b>	M1.04	U
VI.	Write note on attacks Distributed Denial of Service (DDoS) and Replay attack.	M1.04	R
VII.	Assume that you are an ethical hacker and you are supposed to perform foot printing on a given site example.com. How do you perform this using web tools for foot printing? Also provide sample outputs with assumed values for necessary fields.  <b>OR</b>	M2.01	A
VIII.	Utilize the NMAP tool to perform the following types of port scanning on i) specific ranges of hosts ii) single hosts iii) multiple hosts iv) specific ports v) OS detection. Please provide necessary command examples with appropriate values.	M2.04	A
IX.	Explain piggybacking and dumpster diving attacking techniques.  <b>OR</b>	M2.03	U
X.	Explain the term port scanning with SYN scan, XMAS scan and UDP scan.	M2.04	U
XI.	Outline the methods for hardening Windows systems.  <b>OR</b>	M3.02	R
XII.	Explain the Linux vulnerabilities and the countermeasures against Linux attacks.	M3.03	U
XIII.	Explain the different components of a web application.  <b>OR</b>	M4.01	U
XIV.	Explain wireless hacking with its countermeasures.	M4.04	U

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