

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

ASSIGNMENT 1: -Problem Solving Exercises GROUP 1 (USN ending with 1, 3, 5, 7)

Course: ETHICAL HACKING

Max. marks: 7.5

Release Date: 18.11.2025

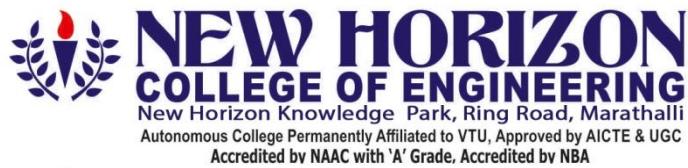
Course code: 24MCA333

Sem / Sec: III / A, B, C

Due Date: 24-11-2025

Q#	Question	RBT Level	COs	POs & PSOs	Marks
1	List elements of Information Security.	L1	CO1	PO1,PSO2	2
2	Explain the anatomy of an attack with respect to: Entry point Exploit Payload Persistence	L2	CO1	PO1, PSO2	3
3	Examine how improper service enumeration can expose critical system information to attackers.	L4	CO2	PO1,PO4,PO5,PSO1 ,PSO2	1
4	Apply WHOIS database queries to collect domain ownership and network details of a given organization.	L3	CO2	PO1,PO4,PO5,PSO1 ,PSO2	1.5

NHCE/AQP/016



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

ASSIGNMENT 1: -Problem Solving Exercises GROUP 2 (USN ending with 0, 2, 4)

Course: ETHICAL HACKING

Max. marks: 7.5

Release Date: 18.11.2025

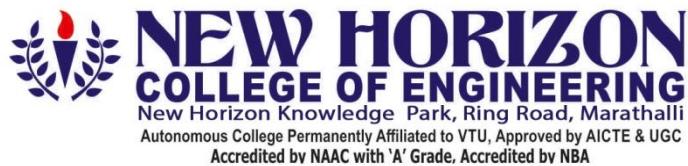
Course code: 24MCA333

Sem / Sec: III / A, B, C

Due Date: 24-11-2025

Q#	Question	RBT Level	COs	POs & PSOs	Marks
1	List the phases of the penetration testing process.	L1	CO1	PO1,PSO2	2
2	Identify attacker profiles (script kiddie, hacktivist, insider) for the following scenarios: Website defacement Corporate data theft Phishing attack	L2	CO1	PO1, PSO2	3
3	Differentiate between footprinting, scanning, and enumeration with respect to their purpose and information gathered.	L4	CO2	PO1,PO4,PO5,PSO1,PSO2	1
4	Demonstrate the use of Google hacking operators to discover publicly exposed sensitive information of a target website.	L3	CO2	PO1,PO4,PO5,PSO1,PSO2	1.5

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

ASSIGNMENT 1: -Problem Solving Exercises GROUP 3 (USN ending with 6, 8, 9)

Course: ETHICAL HACKING

Max. marks: 7.5

Release Date: 18.11.2025

Course code: 24MCA333

Sem / Sec: III / A, B, C

Due Date: 24-11-2025

Q#	Question	RBT Level	COs	POs & PSOs	Marks
1	Identify the impact of a ransomware attack on Confidentiality, Integrity, and Availability.	L1	CO1	PO1,PSO2	2
2	Differentiate ethical hacking vs malicious hacking using a real-world cybercrime case.	L2	CO1	PO1, PSO2	3
3	Analyze the results of an Nmap scan to determine potential security risks based on open ports and services.	L4	CO2	PO1,PO4,PO5,PSO1,PSO2	1
4	Use Nmap to perform basic network scanning and identify open ports and running services on a target system.	L3	CO2	PO1,PO4,PO5,PSO1,PSO2	1.5

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