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Examination – Even Semester 2023

Paper Name: Ethical Hacking

Paper Code: BTCSE MOOCS 2/ BTECE MOOCS2/Lateral Entry

Time: 3 Hours **Maximum Marks: 75**

SECTION: A (35 Marks)

All questions are compulsory **(7x5=35)**

Q. No.	Question	Marks	BL
1	What are some essential TCP/IP hacking techniques? Explain each briefly.	5	BL1
2	Discuss some detection and protection methods for TCP/IP-based attacks?	5	BL2
3	Find net id and host id of the following IP addresses: (i) 201.20.31.0 (ii) 125.50.75.93	5	BL4
4	What is system hacking in ethical hacking?	5	BL4
5	What is a side-channel attack? Explain in brief.	5	BL2
6	What is privilege escalation? Differentiate between vertical and horizontal privilege escalation.	5	BL4
7	Explain Metasploit framework in detail.	5	BL3

SECTION-B (4x10=40 Marks)

Attempt any FOUR Questions

Q. No.	Question	Marks	BL
1	What is IPv6 and why is it important? Explain its types also.	10	BL4
2	Explain NMAP and Nessus? Compare both on the basis of their features.	10	BL2
3	What are common password cracking techniques? Explain each in detail.	10	BL5
4	What is a cryptographic key?Differentiate between Private Key and Public Key. Write down the steps to solve RSA Algorithm Problems	10	BL4
5	What is a Packet Sniffing Attack? What are the different types of Packet Sniffing Attacks? Explain the working of Packet Sniffing.	10	BL5
6	What is SQL injection? How and Why is an SQL injection attack performed? Write down some common examples of SQL injection.	10	BL3

BL – Bloom's taxonomy levels (1-remebering, 2-understanding, 3-applying, 4-analysing, 5-evaluating, 6-creating)