

**K. J. Somaiya Institute of Technology, Sion, Mumbai-22**  
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2023

(B.Tech) Program: Computer Engineering Scheme II

Examination: LY Semester: VII

Course Code: CEDLC7033 and Course Name: Ethical Hacking and Security

Date of Exam: 29/11/23

Duration: 2.5 Hours

Max. Marks: 60

**Instructions:**

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	What is the difference between hacking and ethical hacking?	2	1	U
ii)	List out the steps of foot printing collection phase.	2	1	U
iii)	Describe Man in middle attacks?	2	2	U
iv)	Describe Social engineering attack.	2	2	U
v)	What is directory traversal attack?	2	3	U
vi)	Explain DoS attacks?	2	4	U
vii)	What is the purpose of spoofing in hacking?	2	5	U
viii)	Explain buffer overflow attack.	2	6	U
Q.2	Solve any four questions out of six.	16		
i)	Elucidate the most common entry points for an attack.	4	1	U
ii)	List out 4 technical tools for cracking passwords and explain working of any one in detail.	4	2	U
iii)	Interpret the impact of webserver attacks.	4	3	U
iv)	What is denial of service attack and distributed denial of service attacks? Explain working of it?	4	4	U
v)	Explain accidental association, malicious association and Ad-hoc Networks in detail.	4	5	U



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vi)	Explain penetration testing in detail.	4	6	U
Q.3	Solve any two questions out of three.	16		
i)	Draw life cycle of attack and explain in detail.	8	1	U
ii)	Write a procedure and weakness to hack windows system using Ophcrack and Trinity Rescue Kit.	8	2	U
iii)	Describe any two website vulnerabilities in detail.	8	3	U
Q.4	Solve any two questions out of three.	16		
i)	Explain social engineering lifecycle and computer based social engineering in detail.	8	4	U
ii)	In what manner can WEP and WPA networks be compromised? Explain it with required tools.	8	5	U
iii)	Describe which types of attacks can be launched against intrusion detection systems? Explain.	8	6	U

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