SET-2

Reg.No.

MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

VII SEMESTER B.TECH. (COMPUTER SCIENCE & ENGINEERING)
END SEMESTER (make up) EXAMINATION, NOV/DEC 2023

SUBJECT: ETHICAL HACKING AND CYBER SECURITY [CSE 4066]
REVISED CREDIT SYSTEM
/ / 2023

Time: 180 Minutes   **MAX. MARKS: 50**

Instructions to Candidates:
- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitably assumed.

Q.No	Question	Marks	AHEP LOs	CO	Blooms Taxonomy
1A.	Describe the key components and principles of network security model .	(5M)	3	1	6
1B.	Analyze various stages involved in the practice of ethical hacking ?	(3M)	1	1	4
1C.	Discover any two potential risks associated with dumpster diving.	(2M)	3	1	3
2A.	Discuss potential security weaknesses inherent in the NTFS file systems.	(4M)	4	2	2
2B.	Outline six effective measures implemented to safeguard against malware attacks and ensure robust cybersecurity ?	(3M)	4	2	4
2C.	Analyze DUMPSEC and Hyena enumeration tools	(3M)	4	2	4
3A.	Demonstrate Connect Scan and Ping scan port scanning techniques.	(4M)	3	3	3
3B.	Examine a critical vulnerability in NetBIOS systems.	(3M)	3	3	4
3C.	Illustrate buffer overflow attack with suitable example and what measures can be taken to prevent such attacks?	(3M)	3	3	3
4A.	Outline the functionalities of the Developer Tools integrated into Google Chrome.	(4M)	4	4	4
4B.	Describe various key features and functionalities of Nginx web sever	(3M)	4	4	6

4C.	Summarize three most significant vulnerabilities commonly found in web applications.	(3M)	4	4	5
5A.	Discuss the positive aspects and implications of the Information Technology Act 2000.	(4M)	3	5	2
5B.	Review any three Common attacks that have emerged as Bluetooth-specific security issues?	(3M)	3	5	2
5C.	Differentiate between viruses and worms.	(3M)	3	5	4