

Code: 23IT6401**II B.Tech - II Semester – Honors Examinations - MAY 2025****CYBER SECURITY AND ETHICAL HACKING
(HONORS in INFORMATION TECHNOLOGY)****Duration: 3 hours****Max. Marks: 70**

Note: 1. This question paper contains two Parts A and B.

2. Part-A contains 10 short answer questions. Each Question carries 2 Marks.

3. Part-B contains 5 essay questions with an internal choice from each unit. Each Question carries 10 marks.

4. All parts of Question paper must be answered in one place.

BL – Blooms Level**CO – Course Outcome**

PART – A

		BL	CO
1.a)	What is an E-mail spoofing?	L1	CO1
1.b)	Who are cyber criminals?	L1	CO1
1.c)	What are the different types of attacks?	L1	CO1
1.d)	Define cyberstalking.	L1	CO2
1.e)	How to minimize buffer overflow?	L1	CO3
1.f)	What is steganography, how it is used in cybercrime?	L2	CO3
1.g)	Why should to follow ethics in hacking?	L1	CO4
1.h)	List out the various types of DNS records.	L1	CO4
1.i)	Define Backdoor.	L1	CO1
1.j)	Explain about overt and covert channels.	L1	CO4

PART – B

			BL	CO	Max. Marks
UNIT-I					
2	a)	Discuss the legal perspective of cybercrime and its implications for cyber security.	L2	CO1	5 M
	b)	Explain the concept of cybercrime from a global perspective and how the other countries approach it.	L2	CO1	5 M
OR					
3	a)	Describe the various classifications of cybercrimes and how they are relevant to law enforcement.	L2	CO1	5 M
	b)	Examine the role of the Indian ITA 2000 in combating cybercrime.	L2	CO1	5 M
UNIT-II					
4	a)	Discuss different methods of cyber criminals use to plan and execute the attacks.	L2	CO2	5 M
	b)	How does cloud computing contribute to cybercrime and write its challenges?	L1	CO2	5 M
OR					
5	a)	Explain the role of botnets in modern cybercrimes with major attack examples.	L2	CO2	5 M
	b)	Write the concept of attack vector in detail.	L1	CO2	5 M

UNIT-III					
6	a)	What is password cracking and write the categories of password cracking attacks?	L3	CO3	5 M
	b)	Describe the concept of DoS and DDoS attacks. What are the measures to prevent them?	L2	CO3	5 M
OR					
7	a)	Discuss the significance of SQL injection attack. How the organizations can prevent them?	L2	CO3	5 M
	b)	Discuss the various tools and methods used in phishing and key loggers.	L2	CO3	5 M
UNIT-IV					
8	a)	What is ethical Hacking and write the different phases of ethical hacking?	L1	CO1	5 M
	b)	Explain the concept of cyber security enhancement Act and SPY ACT.	L2	CO4	5 M
OR					
9	a)	Describe the concept of foot printing in information gathering methodology in detail.	L2	CO4	5 M
	b)	Identify the role of reconnaissance in ethical hacking in detail.	L2	CO1	5 M
UNIT-V					
10	a)	Describe the concept of Trojan and its types.	L2	CO3	5 M

	b)	Define online attack. Write different types of online attacks.	L1	CO1	5 M
OR					
11	a)	What is a virus and write its types? Describe about different virus detection methods in detail.	L2	CO1	5 M
	b)	List the password cracking counter measures in detail.	L3	CO4	5 M