

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI EXAMINATION – WINTER 2025

Subject Code:3163213

Date:19-11-2025

Subject Name: Cyber Crime and Mitigation

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What is Cyber Crime?	03
	(b) Explain social engineering in detail.	04
	(c) Explain the different categories of cybercrime in details.	07
Q.2	(a) Differentiate Phishing vs. Vishing.	03
	(b) Explain different types of hackers in the society.	04
	(c) Explain Computer Network Intrusion in detail.	07
OR		
	(c) List out different sections under IT- Act 2000 and explain any four in detail.	07
Q.3	(a) What is Firewall? List advantages and disadvantages of firewall.	03
	(b) Describe Cyber Crime Era: Survival Mantra for Netizens in details.	04
	(c) List types of firewalls and explain any one detail.	07
OR		
Q.3	(a) Write short note on pfsense.	03
	(b) Explain penetration testing in detail	04
	(c) Explain IP-Table in detail.	07
Q.4	(a) Explain gufw and nftables in brief	03
	(b) Write short note on Ethical Hacking.	04
	(c) Explain types of Network attack in detail.	07
OR		
Q.4	(a) Describe NG-AV in detail.	03
	(b) Evaluate threat detection and monitoring in detail.	04
	(c) Discuss mobile operating systems with Security & Privacy Focus.	07
Q.5	(a) Write Short note on Wi-Fi weakness.	03
	(b) Discuss the importance of multi-factor authentication in enhancing system security.	04
	(c) Discuss some security features and functionalities of operating system.	07
OR		
Q.5	(a) Explain Network Isolation in detail.	03
	(b) Describe the risks associated with third-party messaging apps and the importance of using trusted, secure communication platforms.	04
	(c) Explain different Authentication methods in brief.	07
