Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VII- EXAMINATION –WINTER-2022

Subject Code: 2678603   **Date: 03/01/2023**
Subject Name: Cyber Security
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.

Q.1	**(a)**	What is Cyber Security? Discuss Internet and Cyberspace.	**07**
	(b)	Discuss following Term:	**07**
		1. Cyberbullying.	
		2. Cryptocurrency.	
Q.2	**(a)**	Discuss Advantages of Antivirus Software.	**07**
	(b)	Explain phishing Technique with Mobile phone example.	**07**
		OR	
	(b)	Explain Mobile Malicious Code.	**07**
Q.3	**(a)**	Discuss Techniques to Gain a Foothold – Shellcode.	**07**
	(b)	Explain Stack-Based Buffer Overflows.	**07**
		OR	
Q.3	**(a)**	Explain SQL Injection for Cyber Security.	**07**
	(b)	Give the detail of Self-Replicating Malicious Code.	**07**
Q.4	**(a)**	What is Digital Forensics? Goals of Forensic Analysis.	**07**
	(b)	Explain Disk and File System Analysis using windows.	**07**
		OR	
Q.4	**(a)**	Discuss Partitioning and Disk Layouts.	**07**
	(b)	Discuss following Techniques:	**07**
		1. Hashing.	
		2. Event Logs.	
Q.5	**(a)**	Discuss darknets and Botnets.	**07**
	(b)	Explain Elevating Privileges and Registry of Windows.	**07**
		OR	
Q.5	**(a)**	Explain Dark Web and Fast-Flux.	**07**
	(b)	Short note on:	**07**
		1. Brute Force.	
		2. Windows File Systems.	

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