Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER - VIII EXAMINATION- SUMMER-2023

Subject Code: 2688607   **Date: 26/06/2023**
Subject Name: Cyber Forensic
Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**

Instructions:

    1. Attempt all questions.
    2. Make Suitable assumptions wherever necessary.
    3. Figures to the right indicate full marks.
    4. Use of simple calculators and non-programmable scientific calculators are permitted.

Q.1	**(a)**	Do as directed 1. What is the difference between phishing and pharming? [2] 2. What is Wifi eavesdropping? [1] 3. Define anonymous OS. Give an example of it. [1] 4. What are the various file sharing options? According to you which is the suitable one? [2] 5. Define digital signature and PKI. [1]	07
	(b)	What is juice jacking? What are the types of it? List and discuss the ways of preventing from juice jacking.	07
Q.2	**(a)**	Define Social Engineering attack and its steps. Briefly write on different techniques of Social Engineering attacks and their countermeasures.	07
	(b)	Write about cloud and cloud security. Discuss different practices and provisions from top providers for a secure cloud.	07
		OR	
	(b)	How to track yourself online? Discuss reverse image search and how to block online trackers?	07
Q.3	**(a)**	What is the difference between onion routing and garlic routing? Explain the networks where they are used.	07
	(b)	Write about cryptography and classes of cryptographic algorithms.	07
		OR	
Q.3	**(a)**	What is VPN? Write about types of VPN, their advantages, and disadvantages. Draw diagrams wherever required.	07
	(b)	Write about the cryptographic key pair generation using gpg4win along with the steps of its installation.	07
Q.4	**(a)**	What is a BitLocker and how does it work? Discuss.	07
	(b)	Write a report on secure IM. Discuss security tips and best practices of it.	07
		OR	
Q.4	**(a)**	What is the process of attacking Cryptographic systems? Discuss both active and passive attacks of cryptographic systems.	07
	(b)	What is secure video call? Discuss secure online video concerns and privacy.	07
Q.5	**(a)**	Write about disk imaging. Also briefly discuss various software tools used in digital forensics.	07
	(b)	What is white collar crime? What are the reasons of such crimes? Discuss how such crimes can be prevented?	07
		OR	
Q.5	**(a)**	Define network security. Discuss 'Handling Received Client Data over TCP Socket'. Discuss the respective client-side and server-side python codes.	07
	(b)	What is e-Discover process and EDRM model? How are they related to each other? Discuss.	07

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