GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED – SEMESTER VIII- EXAMINATION –WINTER-2024

Subject Code:2688607   **Date: 29/11/2024**
Subject Name: Cyber Forensic
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. Use of simple calculators and non-programmable scientific calculators are permitted.

Q.1	**(a)**	Explain following terms.	**07**
		(1) Malware	
		(2) Ransom ware	
		(3) Scare ware	
		(4) Cracking	
		(5) Darknet	
		(6) Digital signature	
		(7) Digital Forensic	
	(b)	What is digital security? List the types of computer security risks and explain each in brief.	**07**
Q.2	**(a)**	Explain secure file sharing techniques.	**07**
	(b)	Explain secure online browsing and email security.	**07**
		OR	
	(b)	Define social engineering risk. Explain the types of social engineering attacks and safety measures.	**07**
Q.3	**(a)**	Give the difference between encryption and cryptography. Explain cryptographic functions.	**07**
	(b)	Explain mobile forensic.	**07**
		OR	
Q.3	**(a)**	Define network security. Explain blocking and non blocking socket I/O.	**07**
	(b)	What is cyber crime? What are the laws to prevent it? Explain the roles and responsibilities of cyber crime software engineer.	**07**
Q.4	**(a)**	Explain the threats and security for Email with Email investigation, Email tracking and IP tracking.	**07**
	(b)	Explain various cyber security software tools.	**07**
		OR	
Q.4	**(a)**	What is disk encryption? List and explain open source tools.	**07**
	(b)	What is VPN? Explain the types of VPN with advantages and disadvantages.	**07**
Q.5	**(a)**	What is anonymous payment? How will you perform secured monetary digital transactions? Explain the ways of attacks and precautions.	**07**
	(b)	What is white caller crime? Discuss its advantages, disadvantages and prevention techniques.	**07**
		OR	
Q.5	**(a)**	Explain the process of encrypting DNS traffic and Email communication.	**07**
	(b)	Explain secure WiFi setting and secure web browser configuration.	**07**

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