Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER–II • EXAMINATION – SUMMER - 2017

Subject Code: 2722313 **Date: 29/05/2017**

Subject Name: DIGITAL 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.**

Q.1	**(a)**	1. What do you mean by computer forensic? What are the objectives of it?	**03**
		2. What is plagiarism? Which tools would you use to determine plagiarism?	**04**
	(b)	1. What are the skills that are needed to investigate hacker's attack?	**03**
		2. What is live acquisition? How are they performed?	**04**
Q.2	**(a)**	How can one determine duplication of the code? Which tools are available for this? Explain any one in detail.	**07**
	(b)	Discuss the issues related to law and ethics related to digital forensic.	**07**
		OR	
	(b)	Discuss different types of Blackhats and their characteristics.	**07**
Q.3	**(a)**	How the programming process and tools used to develop the program are used as software forensic tools?	**07**
	(b)	Discuss the types of utilities used in virus detection technologies in order to assist in software forensic.	**07**
		OR	
Q.3	**(a)**	Explain detection and anti-detection techniques for computer virus and malware.	**07**
	(b)	What are computer viruses and malwares? Discuss them in detail.	**07**
Q.4	**(a)**	What is "cusum"? Explain its significance with respect to software forensic.	**07**
	(b)	Discuss the indicators of programming style.	**07**
		OR	
Q.4	**(a)**	Briefly discuss the structure of Trojan and Logic Bomb.	**07**
	(b)	Explain the significance of "function" as an indicator of cultural style of programming.	**07**
Q.5	**(a)**	Briefly discuss the types of evidences and their rules when they are required to be produced in the court for the purpose of digital investigation.	**07**
	(b)	Briefly discuss forensic tools like desquirr and Dcc.	**07**
		OR	
Q.5	**(a)**	Write short note on stylistic analysis and linguistic forensic.	**07**
	(b)	How does programming culture help us in identifying a particular author of software? Explain in detail.	**07**

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