Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – III • EXAMINATION – WINTER • 2013

Subject code: 732303 **Date: 28-11-2013**

Subject Name: Software Forensics

Time: 10.30 am – 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.**

Q.1	**(a)**	Explain the software forensic technologies and practices.	**07**
	(b)	Define software and network forensics. What are the objectives and objects of software forensics?	**07**
Q.2	**(a)**	Discuss types of blackhats and its general characteristics.	**07**
	(b)	Explain analytical tools.	**07**
		OR	
	(b)	Discuss Cogger, SCRUPLE and tool for finding duplicate code.	**07**
Q.3	**(a)**	Describe in brief detection techniques.	**07**
	(b)	What is plagiarism? Explain the use of YAP and JPlag.	**07**
		OR	
Q.3	**(a)**	Discuss decompilation and its various tools.	**07**
	(b)	Explain programming process.	**07**
Q.4	**(a)**	Explain the structure of virus and trojan.	**07**
	(b)	Discuss stealth and anti-detection measures.	**07**
		OR	
Q.4	**(a)**	Explain rules of evidence.	**07**
	(b)	Discuss the legal systems and types of evidence.	**07**
Q.5	**(a)**	Write a short note on plagiarism detection versus authorship analysis.	**07**
	(b)	What are indicators? Briefly explain indicators of programming style.	**07**
		OR	
Q.5	**(a)**	What is Cusum? Discuss programmer skill and objective with reference to programming style.	**07**
	(b)	Which are the 3 standard forms of authenticity? Write a short note on non content metrics as evidence of authorship.	**07**

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