

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – III • EXAMINATION – SUMMER • 2013****Subject code: 732303****Date: 15-05-2013****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) What is software forensic? Discuss objects and objectives of software forensic. **07**
(b) Define the term ôblackhatô. Discuss the different types of blackhats and their characteristics. **07**
- Q.2** (a) Discuss the issues related to law and ethics in software forensic. **07**
(b) Write short note on stylistic analysis and linguistic forensic. **07**
- OR**
- (b) How does programming culture help us in identifying a particular author of software? **07**
- Q.3** (a) How can one determine duplication of the code? Which tools are available for this? Explain any one in detail. **07**
(b) Explain the programming process and products used to develop software. **07**
- OR**
- Q.3** (a) Briefly discuss the requirement of change detection (Integrity checking) software and different approaches of scanning. **07**
(b) Compare between content and non-content analysis **07**
- Q.4** (a) Explain the process of assembly code analysis using simulator. **07**
(b) Define the term: malware and discuss the structure of virus. **07**
- OR**
- Q.4** (a) Explain the requirement and process of decompilation of software code **07**
(b) Define the term: malware and discuss the structure of logic bomb. **07**
- Q.5** (a) Discuss the analysis tools Desquirr and JPlag. **07**
(b) Briefly discuss the structure of Trojan and Logic Bomb. **07**
- OR**
- Q.5** (a) Discuss the indicators of programming style. **07**
(b) Write short note on plagiarism detection versus authorship analysis. **07**
