

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 732303

Date: 26/12/2012

Subject Name: Software Forensic

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) Discuss the types of Blackhats, their characteristics and motivation. **07**
(b) What is software forensic? What are the object and objectives of it? **07**

- Q.2** (a) Discuss the following issues related to law and ethics in software forensic: types of evidence and blackhat motivation as a defense. **07**
(b) How the programming process and tools used to develop the program are used as software forensic tools? **07**

OR

- (b) Compare between content and non-content analysis. **07**

- Q.3** (a) List the various Blackhat products and discuss their characteristics. **07**
(b) List the products required to study during code analysis and discuss their complicating factors. **07**

OR

- Q.3** (a) Briefly discuss the analytical tools like DEBUG and BinText for software code analysis. **07**
(b) Discuss the types of utilities used in virus detection technologies in order to assist in software forensic. **07**

- 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**

OR

- Q.4** (a) How can one determine duplication of the code? Which tools are available for this? Explain any one in detail. **07**
(b) Briefly discuss the requirement of change detection (Integrity checking) software and different approaches of scanning. **07**

- 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? **07**

OR

- Q.5** (a) Discuss the noncontent metrics and additional indicators as evidence of authorship. **07**
(b) Write short note on plagiarism detection versus authorship analysis. **07**
