

Code No: 117BW

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November/December - 2016

## COMPUTER FORENSICS

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

## PART-A

(25 Marks)

- 1.a) What is the role of computers in a crime? [2]
- b) What are the problems of computer forensics evidence? [3]
- c) What are artifacts? [2]
- d) List out the steps for processing computer evidence. [3]
- e) What is computer forensic validation? [2]
- f) How to validate forensic data? [3]
- g) What are the needs of computer forensic tools? [2]
- h) Discuss about email servers. [3]
- i) What is the use of registries in windows? [2]
- j) What do you mean by encrypting a disk? [3]

## PART-B

(50 Marks)

2. Explain briefly about
    - a) role of backup in data recovery.
    - b) Data recovery solution. [5+5]
- OR**
3. Explain about computer forensic services. [10]
  4. What are the legal aspects of collecting and preserving computer forensic evidence? [10]
- OR**
5. What are the practical considerations and implementations for computer image verification and validation? [10]
  - 6.a) Explain about how to secure a computer incident or crime scene.
  - b) Write short notes on network forensic overview. [6+4]
- OR**
7. Explain the process of collecting evidences in private sector incident scenes. [10]

- 8.a) What do you understand by mobile device forensics? Explain. [6+4]  
b) Explain about specialized email forensic tools.

**OR**

9. Explain about investigating email crimes and violations. [10]

10. Discuss about  
a) Virtual machines b) MS-DOS startup tasks [5+5]

**OR**

11. Write short notes on  
a) Microsoft file structures b) Microsoft startup tasks. [5+5]

--ooOoo--