JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, March - 2017
COMPUTER FORENSICS
(Computer Science and Engineering)

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 Computer Forensics?   [2]
  b)   What are the problems of computer forensic evidence?   [3]
  c)   What is data seizure?   [2]
  d)   How do you preserve the digital crime scene?   [3]
  e)   What is steganography?   [2]
  f)   Explain initial-response and extensive-response field kits?   [3]
  g)   What is the need of computer forensics tools?   [2]
  h)   Explain e-mail crimes.   [3]
  i)   What is whole disk encryption?   [2]
  j)   Explain FAT disks.   [3]

Part-B (50 Marks)

2.a)   Explain the Steps taken by Computer Forensics Specialists.
  b)   Describe how computer forensics is used to assist human resources and employment
       proceedings.   [5+5]
OR
3.a)   Explain the computer evidence processing procedures.
  b)   Discuss the role of back-up in data recovery.   [5+5]

4.a)   Explain the rules of collecting electronic evidence.
  b)   Discuss the purpose of chain of custody in controlling data contamination.   [5+5]
OR
5.a)   Discuss the Legal Aspects of Collecting and Preserving Computer Forensic Evidence.
  b)   Explain the color image authentication.   [5+5]

6.a)   Describe the methods of performing a remote acquisition.
  b)   Explain the standard procedures for network forensics.   [5+5]
OR
7.a)   Explain the guidelines for seizing digital evidence at the scene.
  b)   Describe how to secure a computer incident or crime scene.   [5+5]

8. In detail explain the tasks performed by computer forensics tools. [10]

OR

9.a) Describe the tasks in investigating e-mail crimes and violations.

   b) Explain the procedure for acquiring data from mobile devices. [5+5]

10.a) Explain the structure of new technology file system(NTFS) disks.

   b) Describe the working of Windows registry. [5+5]

OR

11.a) Explain the Microsoft startup tasks.

   b) Explain the role of virtual machine in computer forensics. [5+5]

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