

R15

Code No: 127BW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November/December - 2018

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 the use of computer forensics in law enforcement? [2]
- b) Explain military computer forensic technology. [3]
- c) What is a digital crime scene? [2]
- d) Explain the purpose of Digital IDs. [3]
- e) What is network forensics? [2]
- f) Explain the purpose of digital hash in computer forensics. [3]
- g) What are mobile forensics tools? [2]
- h) Explain e-mail crimes. [3]
- i) What is a FAT Disk? [2]
- j) Explain windows registry. [3]

PART-B

(50 Marks)

- 2.a) What is computer forensics? List and explain the various services of computer forensics?
- b) What is computer forensic? Who can use computer forensic evidence? [5+5]

OR

- 3.a) Describe the types of Law enforcement.
- b) What is data recovery? Explain the role of back-up in computer forensics data recovery? [5+5]

- 4.a) Explain the different types of evidence.
- b) Discuss the purpose of chain of custody in controlling data contamination. [5+5]

OR

- 5.a) Describe the steps in processing computer evidence.
- b) Explain the special needs of evidential authentication. [5+5]

- 6.a) Briefly, explain the process of determining what data to collect and analyze.
- b) What is remote acquisition? Explain how remote acquisition is performed. [5+5]

OR

- 7.a) Explain the collection of evidence in private sector incident scenes.
- b) Explain seizing digital evidence at the scene. [5+5]

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- 8.a) Explain the different types of computer forensic tools.
 - b) Explain the validation and testing of computer forensic software.
- OR**
- 9.a) Discuss the role of email in computer forensic investigation.
 - b) Explain mobile device forensics.

[5+5]

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[5+5]

- 10. In detail explain the Microsoft File structures.

[10]

OR

- 11. Write short notes on:
 - a) Virtual Machines
 - b) NTFS Disks.

[5+5]

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