No. of Printed Pages: 2

Sl. No.

CE1.3-R4: CYBER FORENSIC AND LAW

NOTE:

Answer question 1 and any FOUR from questions 2 to 7. 1.

2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours Total Marks: 100

- 1. (a) What is Computer Forensics? Cite some common applications of computer forensics.
 - What are the key features of i2 Analyst's Notebook? Explain Flexible Data (b) Acquisition with respect to i2 Analyst's Notebook
 - (c) Difference between Steganography and Cryptography
 - How a Laptop does differ from a PDA (Personal Digital Assistant)? (d)
 - (e) Explain Data Acquisition and Duplication.
 - What is the Role of Digital Evidence? (f)
 - What is the role of "Chain of Custody of Digital Evidence" in digital investigations? (g) (7x4)

- 2. Describe the various phases of Cyber Forensics. (a)
 - What is "EnCase Forensic Toolkit"? Explain its working. In which phase of Cyber (b) Forensics, this tool can be used? (9+9)
- 3. What is a Hash function? How do Cyber Forensic Examiners use Hashes? (a)
 - What is Email Spoofing? How does it affect a computer system? What are the (b) necessary guidelines that one must follow to prevent the system from Spoofing attacks. (9+9)
- Explain the working of BIOS. What are the main functions of PC BIOS? How 4. (a) can BIOS be updated?
 - (9+9)Describe NIST Cyber security Framework in detail. (b)
- **5**. Discuss the role of "First Responder" in digital forensic investigations? (a)
 - What is Forensic Hard Drive Imaging? If software is available to create a forensic (b) image of a hard disk or other media, what is the benefit of forensic hardware?
 - How File Recovery is different from File Carving? Explain block based carving (c) and statistical carving in brief. (6+6+6)

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- **6.** (a) Explain Data Recovery in Linux.
 - (b) Why is it important that all the software used by law enforcement officers be licensed and registered? Law enforcement budgets are often tight; why not use freeware as much as possible?
 - (c) Discuss measures to tackle Cyber Crime.

(6+6+6)

- 7. Write short notes on the followings:
 - (a) Importance of Cyber Laws.
 - (b) Swap Files and Temporary Files
 - (c) Digital Forensic Examiner Checklist (6+6+6)

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