

## CE1.3-R4: CYBER FORENSICS & LAW

### NOTE:

1. Answer question 1 and any FOUR from questions 2 to 7.
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 Personal Digital Assistant? Briefly mention the applications of Personal Digital Assistant.
- b) What is volatile data? Explain with the help of a suitable example.
- c) Define the following terms in brief:
  - i) Data diddling
  - ii) Email bombing
  - iii) Denial of Service attack
  - iv) Logic bombs
- d) What can be inferred from the word "Digital Forensic"?
- e) Explain Block-Based Carving and Statistical Carving in brief.
- f) Define computer forensic. Explain two techniques for computer forensic investigation.
- g) Why does an organization need to employ Cyber Forensic Analysis?

(7x4)

2.

- a) What is software piracy? What methods should an organization implement to prevent software piracy?
- b) What is Session Hijacking? Explain the methods for session hijacking
- c) What is Steganography? Explain with suitable example.

(6+8+4)

3.

- a) Define Cyber-Crime. What are the differences between Computer Crime and Computer-related crime?
- b) What are the advantages and disadvantages of Public key cryptography?
- c) What is the need of cyber forensic tools? List and explain any four tools for cyber forensics.

(6+5+7)

4.

- a) What is Cyber Forensic Investigation? Differentiate between auditing and Cyber Forensic Investigation with respect to following elements: Definition, Objectives, Scope and Methodology.
- b) What is Hash function? Which are the hash algorithms? Mention applications of hash functions related to cyber forensics.

(9+9)

5.

- a) What is "Encase" tool kit? Explain the working of this software tool.
- b) Define privacy law. Classify types of privacy law. Explain information privacy law.
- c) Write Short note on Root kits.

(6+6+6)

**6.**

- a) What care should be taken by the cyber forensic investigator in the collection and preservation of data stored on hard drive?
- b) Explain the additional features supported by Network Forensic Analysis Tool to facilitate network forensics.
- c) Explain the steps of Cyber Forensic Investigation Process.

**(6+6+6)**

**7.**

- a) What is Cyber Stalking? Explain in detail Email Stalking, Internet Stalking and Computer Stalking.
- b) Define data acquisition. Explain methodology of data acquisition in detail.

**(9+9)**