CE1.3-R4: CYBER FORENSIC AND 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) Define computer forensics. Explain at least two techniques for computer forensic investigation
- b) What is software piracy? What methods should an organization implement to prevent software piracy?
- c) What can be inferred from the word "Digital Forensics"?
- d) How are deleted files from a computer hard disk be recovered?
- e) Explain the difference between copying and imaging of a hard disk.
- f) Explain the use of recycle bin and restoring from recycle bin.
- g) What is volatile data? How it is useful in computer forensic investigation? Explain the method and tools for capturing volatile data.

(7x4)

2.

- a) What is file carving? Explain Block-Based Carving and Statistical Carving in brief
- b) Define the following terms:
 - i) Data diddling
 - ii) Email bombing
 - iii) Denial of Service attack
 - iv) Logic bombs
- c) Define data acquisition. Explain methodology of data acquisition in detail.

(6+4+8)

3.

- a) Explain the working of BIOS. How can BIOS be updated?
- b) What is Personal Digital Assistant? Briefly mention the applications of Personal Digital Assistant
- c) Explain the strategies to collect live network traffic data alongwith the criterion for their selection.

(7+4+7)

4.

- a) What is Session Hijacking? Explain the methods for session hijacking
- b) What is spoofing? Explain Caller ID spoofing, Email Spoofing, Web Spoofing in brief.

(9+9)

5.

- a) Explain the technology advancements in Law Enforcement for Computer Forensics.
- b) What are the features of NTFS v 3.0 file systems?
- c) Write a short note on steganography.

(6+8+4)

- 6.
- a) What is a swap file? Explain working of swap file with the help of a suitable example. What is the importance of a swap file in computer forensics?
- b) Define CyberCrime. Distinguish between Computer Crime and Computer-related Crime.
- c) Define Computer Forensic Toolkit. What standard features should be built in a toolkit? How are these useful in computer forensic analysis of digital evidence?

(6+6+6)

7.

- a) What is Cloaking? Differentiate between Cloaking and IP delivery.
- b) Define privacy law. Classify types of privacy law. Explain information privacy law.
- c) Explain Public key cryptography with advantages and disadvantages

(7+6+5)