

SEMESTER EXAMINATION, 2022 – 23
2023 M.Tech I Year – Computer Science & Engg
Digital Forensics

Duration: 3:00 hrs**Max Marks: 100**

Note: - Attempt all questions. All Questions carry equal marks. In case of any ambiguity or missing data, the same may be assumed and state the assumption made in the answer.

Q 1.	Answer any four parts of the following. a) What is the Computer forensics? Explain the Benefits of digital forensics. b) What is the computer crime? What are 5 computer crimes? c) Describe client and server roles in e-mail with diagram. d) Explain the computer forensics services? e) What is Evidence? Explain the various types of digital evidence. f) Explain the legal concerns and private issues in digital forensic	5x4=20
Q 2.	Answer any four parts of the following. a) Explain the procedure to investigating routers. b) What do you understand by data recovery work station and software? c) Explain the specialized E-Mail forensics tools. d) What is duplication of digital evidence? Explain its purpose? e) What are the types of computer forensics tools? f) What is the Data acquisition? How is it performed?	5x4=20
Q 3.	Answer any two parts of the following. a) Explain how data backup and recovery is done in computer forensics? b) What is the procedure for securing the evidence? Explain the role of e-mail in investigations. c) What are the requirements to set up a workstation for computer forensics? Compare traditional criminal activity with cyber crime.	10x2= 20
Q 4.	Answer any two parts of the following. a) Why should the computer incident or crime scene be secured? Who is responsible for securing the scene? b) What are the remote network acquisition tools? List and explain different ways to trace information on the internet. c) Explain the legal process to conduct computer investigation for potential criminal violations of law.	10x2= 20
Q 5.	Answer any two parts of the following. a) What are the data hiding techniques? Explain the factors that affect backup in data recovery? b) What do you understand by E-Mail servers? Explain the investigating email crime and violations in details. c) Explain in detail about the following: 1. Computer Forensics Software Tools 2. Computer Forensics Hardware Tools	10x2= 20