


Name:			
Enrolment No:			
UPES End Semester Examination, May 2023			
Course: Forensic Computing Program: M TECH CSE Course Code: CSCS 7003P		Semester : II Time : 03 hrs. Max. Marks: 100	
Instructions: All questions are mandatory			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Discuss the processes involved in network forensics.	4	CO1
Q 2	Discuss the role of system admin and forensic lab staff during incident response.	4	CO2
Q 3	Define digital watermarking. Discuss its various types.	4	CO3
Q 4	Differentiate between FAT and NTFS.	4	CO4
Q 5	Discuss any four application areas of forensic computing.	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Discuss in detail the various techniques used in email forensic investigation. Also, discuss the challenges associated with email forensics.	10	CO1
Q 7	How could you investigate a mobile device used in a criminal investigation. Describe the steps you would take to acquire and analyze the device's data.	10	CO2
Q 8	Name three main types of steganography. How is steganography used with audio files? OR Explain Steganalysis with example. Discuss any five attacks on Steganography.	10	CO3
Q 9	Name a few tools used for recovering lost data. Also, explain the process of data recovery using any of these tools.	10	CO4
SECTION-C (2Qx20M=40 Marks)			
Q 10	Write a detailed note on network components and their significance in forensic computing. Also, discuss the importance of OSI model in implementing cybersecurity.	20	CO2

	<p style="text-align: center;">OR</p> <p>Discuss the various types of web attacks that can be carried out by an attacker. Also, discuss the techniques used for detecting and investigating web attacks.</p>		
Q 11	<p>Explain the following:</p> <ul style="list-style-type: none">a) Spread Spectrumb) Substitution Systemsc) Wireless securityd) File Directories	5*4=20	CO3