


Name: Enrolment No:			
<p style="text-align: center;">UPES End Semester Examination, May 2025</p> <p> Course: Digital Forensics Program: BTech-CS-All Course Code: CSSF4015P </p> <p style="text-align: right;"> Semester : 8 Time : 03 hrs. Max. Marks : 100 </p> <p>Instructions: Attempt all questions. Calculators not allowed.</p>			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Discuss different PE sections and their functions.	4	CO1
Q 2	Discuss the importance of examining the (.rsrc).	4	CO2
Q 3	With example note down different types of malwares.	4	CO5
Q 4	Write a short note on PGP protocol.	4	CO4
Q 5	Write a short note on different types of Steganography.	4	CO3
SECTION B (4Qx10M= 40 Marks)			
Q 6	Compare MBR and GPT partition table.	10	CO4
Q 7	Discuss the importance of cookie and cache analysis in web browser analysis.	10	CO3
Q 8	Discuss static malware analysis.	10	CO5
Q 9	(a) White a note on LSB-Steganography. (8) (b) Discuss the effect on the cover media if we do use other bits in LSB-Steganography to hide our data. (2) <p style="text-align: center;">OR</p> (a) Discuss legal considerations in digital evidence handling. (5) (b) Discuss how to preserve the chain of custody in Digital Forensics investigation. (5)	10	CO4

SECTION-C
(2Qx20M=40 Marks)

Q 10	Examine the role of digital forensics in investigating a suspected bank account fraud over call, involving seized mobile phones and laptops. Identify the critical data types to focus on and explain the step-by-step process for extracting, analyzing, and utilizing this information to uncover fraudulent activities.	20	CO5
Q 11	(a) With clear diagrams, discuss how to back up your forensic data using RAID. (10) (b) Discuss file metadata and its importance in digital forensics. (10) OR (a) Discuss malware hashing and its purpose. (5) (b) Draw PE header structure. (10) (c) Steps to analyze the PE header. (5)	20	CO4