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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 07-10-2025

Time: 02.00pm to 03.30pm

School: SOCSE	Program: B. Tech	
Course Code: CCS2500	Course Name: Cyber Forensics	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks					

Instructions:

- (i) *Read all questions carefully and answer accordingly.*
- (ii) *Do not write anything on the question paper other than roll number.*

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Define digital evidence with one example.	2 Marks	L1	C01
2	State any two characteristics of digital evidence.	2 Marks	L1	C01
3	What is the importance of hexadecimal in cyber forensics?	2 Marks	L1	C02
4	List two types of file signatures used to identify file formats.	2 Marks	L1	C02
5	Why is chain of custody important in digital investigations?	2 Marks	L2	C01

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain the steps of the Digital Forensics Lifecycle with examples.	10 Marks	L2	CO 1
Or					
7.	a.	Apply the lifecycle approach to investigate a phishing case where user credentials were stolen.	10 Marks	L3	CO 1

8.	a.	Discuss the categories of computer crimes with suitable examples.	10 Marks	L2	CO 1
Or					
9.	a.	Analyze a real-world ransomware case and explain its modus operandi, motive, and technology used.	10 Marks	L3	CO 1

10.	a.	Explain the role of number systems and character codes in forensic analysis.	10 Marks	L2	CO 2
Or					
11.	a.	Apply ASCII and Unicode understanding to identify hidden data in a suspect text file.	10 Marks	L3	CO 2

12.	a.	Describe the concept of file signatures with examples of JPEG and PDF.	10 Marks	L2	CO 2
Or					
13.	a.	Apply file carving techniques to recover disguised malicious files from a disk image.	10 Marks	L3	CO 2