

Roll No.



# PRESIDENCY UNIVERSITY

BENGALURU

## Mid - Term Examinations – October 2025

Date: 07-10-2025

Time: 02.00pm to 03.30pm

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

CO - Levels	C01	C02	C03	C04	C05
Marks					

### Instructions:

- Read all questions carefully and answer accordingly.
- 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**

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

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

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

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