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Examination: Even Semester Examination 2023

Paper Name: Digital Forensics

Paper Code: MTCSEP PE243

Time: 3 Hours

Maximum Marks: 75

Note: Mobile Phones or programmable calculator or any equipment with memory are not allowed inside the examination hall.

Follow proper numbering for answering the questions.

Section- A

(Attempt all questions | 7 x 5 = 35)

Q. No.	Question	Marks	CO	BL
1.	What is Cyber Forensics? List the common activities included under it.	5	CO1	BL1
2.	What is meant by the 3'A's of Cyber Forensics?	5	CO2	BL2
3.	Compare crime, felony, and misdemeanor.	5	CO1	BL3
4.	How are facts, inferences, and opinions different from each other?	5	CO1	BL2
5.	Explain Prima Facie evidence and Hearsay evidence with suitable examples.	5	CO2	BL1
6.	Introduce some popular open source Network Forensic tools.	5	CO2	BL3
7.	What is Mobile Forensics? How is it different from Computer Forensics?	5	CO3	BL1

Section-B

(Attempt any four questions | 4 x 10 = 40)

Q. No.	Question	Marks	CO	BL
1.	What is an Investigative Process? Explain all the stages involved in detail.	10	CO1	BL2
2.	Discuss the workload of the Law Enforcement.	10	CO2	BL2
3.	Explain Section-4 and Section-5 of the Information Technology Act.	10	CO2	BL6
4.	What are the steps in the mobile forensics process? Discuss how recent technological advancements have affected them.	10	CO3	BL4
5.	Discuss the common forms of Cyber Crimes prevalent today. What provisions are there in the IT Act to punish the Cyber Criminals?	10	CO2	BL3
6.	Consider the following scenario: Margret was found murdered in her home. She was wearing a Fitbit. According to the arrest warrant, her husband Nick provided an elaborate explanation of the day's events, claiming that he returned home after receiving an alarm alert. Nick went on to claim that, upon entering his house, he was immobilized and tortured by an intruder. He told police that the intruder then shot and killed Margret when she returned home from the gym. Apply the Investigative Process to prove that the murderer is Nick and not the intruder as claimed by him. Assume other details if required.	10	CO5	BL2

BL – Bloom's Taxonomy Levels (1-Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6-Creating)