

**Model Question Paper****Sixth Semester BE Degree Examination****Digital Forensics****Time: 3 Hours (180 Minutes)****Max. Marks: 100****Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.****2. M: Marks, L: RBT (Revised Bloom's Taxonomy) level, C: Course outcomes.**

Module -1			M	L	C
Q1	a.	Trace the historical evolution of cyber forensics and explain the need for digital forensics in modern investigations.	10	L2	CO1
	b.	Explain the Digital Forensics Life Cycle with a neat diagram.	10	L2	CO1
OR					
Q2	a.	Define digital evidence and explain its characteristics and types.	10	L2	CO1
	b.	Discuss the chain of custody and explain its importance in legal proceedings.	10	L2	CO1
Module- 2					
Q3	a.	Explain the steps involved in preparing a computer investigation for a corporate environment.	10	L2	CO2
	b.	Describe the systematic approach to a digital investigation including assessing and planning the case.	10	L2	CO2
OR					
Q4	a.	Describe the technical procedures required to investigate an internet abuse case within an organization's private network.	10	L2	CO2
	b.	Discuss the role of interviews and interrogations in high-tech crime investigations.	10	L2	CO2
Module - 3					
Q5	a.	Explain various storage formats of digital evidence: Raw, Proprietary, and Advanced Forensic Format.	10	L2	CO3
	b.	Describe the role of forensic acquisition tools in digital investigations. Explain the working of any two commonly used acquisition tools.	10	L2	CO3
OR					
Q6	a.	Explain the process of bit-stream image acquisition and its importance.	10	L2	CO3
	b.	Describe the procedure for performing RAID data acquisitions. What challenges are faced during RAID acquisitions and how are they addressed?	10	L2	CO3
Module - 4					
Q7	a.	Explain the rules of evidence and their relevance in digital forensics.	10	L2	CO4
	b.	Describe the steps involved in processing a computer crime scene.	10	L2	CO4
OR					
Q8	a.	Explain the procedures for seizing and storing digital evidence at an incident scene.	10	L2	CO4
	b.	Discuss the role of digital hashing in validating and preserving digital evidence.	10	L2	CO4
Module - 5					
Q9	a.	Explain mobile phone forensics and Smartphone forensics, highlighting major challenges.	10	L2	CO5

	b.	Discuss the challenges involved in the forensic analysis of digital images and still cameras. Explain how metadata is useful in such investigations.	10	L2	CO5
OR					
Q10	a.	Explain the techno-legal challenges associated with evidence from handheld devices.	10	L2	CO5
	b.	Explain the role of computer forensics in litigation. How does digital evidence from hand-held devices support legal proceedings?	10	L2	CO5
