

Enrolment No./Seat No _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE(MINOR)- SEMESTER-I&II EXAMINATION – SUMMER 2025

Subject Code:N114AU01

Date:03-06-2025

Subject Name:Forensic Science & Law

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Define and differentiate between physical, biological, and digital evidence in forensic science.	03
	(b) What are the essential ethical principles followed in forensic investigations?	04
	(c) Explain any two methods used to search evidence at a crime scene.	07
Q.2	(a) Describe the role and significance of forensic document examination in criminal and civil cases.	07
	(b) Give an overview of the forensic institutions under the State Governments of India and discuss their contributions to regional crime solving.	07
	OR	
	(b) Discuss the importance of accreditation and quality control in forensic science laboratories. How do national and international bodies ensure standardization?	07
Q.3	Describe a recent or hypothetical case study where forensic geotechnical or material analysis was used to investigate a civil infrastructure failure. What methods were employed, and what conclusions were drawn?	14
	OR	
Q.3	Explain the role of forensic engineers and legal professionals in post-disaster investigations (e.g., building collapse, dam failure). Include a discussion on legal liabilities and engineering responsibilities.	14
Q.4	(a) Briefly describe the history of forensic science in India.	07
	(b) How is forensic entomology useful in determining the post-mortem interval? Give an example to illustrate your answer.	07
	OR	
Q.4	(a) Discuss the challenges faced by forensic science laboratories in maintaining standards of accuracy, reliability, and impartiality in their analysis.	07
	(b) Describe any five services provided by the Forensic Sciences Laboratory.	07
Q.5	(a) How do international standards and collaborations influence the practice and development of forensic science worldwide?	07
	(b) How do forensic engineers determine the root cause of a building collapse? Outline the steps involved in this process	07
	OR	
Q.5	(a) Write short notes on: Forensic Odontology and Cyber Forensics	07
	(b) Explain the chain of custody in forensic evidence management. Why is it critical in legal proceedings?	07