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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

May / June 2025 Semester End Main Examinations

Programme: B.E.

Semester: VIII

Branch: Institutional Elective

Duration: 3 hrs.

Course Code: 22BT8OEFRS

Max Marks: 100

Course: Forensic Science

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

			UNIT - I	CO	PO	Marks
Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.	1	a)	List the contributions of Alphonse Bertillon, Francis Galton, Leone Lone Lattes, Calvin Goddard and Edmond Lochard in the field of forensic science.	1	-	10
		b)	What is Inquest? Explain different types of inquest.	2	1	10
OR						
	2	a)	“Eyewitness identifications (right or wrong) can highly influence the outcome of an investigation or trial. But still Substantiate the statement. Though not highly reliable, eyewitness testimonials are very important as evidence in courts.” Substantiate the statements, stating elaborately the factors influencing the witness testimonials and still why is it considered as significant evidence for a crime in courts.	2	1	10
		b)	Differentiate the following: i. Common witness and Expert witness ii. Primary evidence and Circumstantial evidence iii. Examination-in-chief and cross-examination iv. Suspect and Accomplice v. Supreme court and sessions court	2	1	10
			UNIT - II			
	3	a)	Explain any eight common types and sources of physical evidence.	2	1	08
		b)	In detail discuss the different types of methodic search for evidences collected in and around a crime scene.	2	1	12
OR						
	4	a)	Discuss basic services provided by full-service crime laboratories.	2	1	10
		b)	Explain the organization of crime lab at various levels in India.	2	1	10

UNIT - III					
5	a)	Highlight on the different techniques used to identify an organic substance at the crime scene.	3	2	08
	b)	Explain the preservation and examination methods for hair and semen collected as evidence at the crime scene.	3	2	12
OR					
6	a)	Elaborate on the forensic analysis of glass and paint which are obtained as physical evidences with the help of a suitable case study.	4	2,10	12
	b)	Discuss the preservation techniques and examination of blood as evidence.	3	2	08
UNIT - IV					
7	a)	Describe the RFLP method for DNA analysis.	3	2	7
	b)	Explain the importance of forensic entomology in detecting the time of death, citing a relevant case study.	4	2,10	7
	c)	Give an insight on the significance of forensic odontology for certain crime investigations.	3	2	6
OR					
8	a)	With suitable illustrations, explicate the fingerprints pattern classification.	3	2	8
	b)	Write a note on 1) Rigor Mortis 2) Algor Mortis	2	1	12
UNIT - V					
9	a)	Explain the importance of professional ethics to science practitioners.	2	1	7
	b)	Give an overview and importance of cyber forensics.	2	1	7
	c)	Write a note on ethical dilemmas and their resolution.	2	1	6
OR					
10	a)	Explain the application of computers in cyber forensics.	2	1	6
	b)	How does ethical requirements impact the daily work of a forensic scientist?	2	1	8
	c)	Discuss various models of codes of ethics.	2	1	6
