

U.S.N.


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

Autonomous Institute Affiliated to VTU

**July 2023 Semester End Main Examinations****Programme: B.E.****Branch: Institutional Elective****Course Code: 21BT8IEFRS****Course: Forensic Science****Semester: VIII****Duration: 3 hrs.****Max Marks: 100****Date: 06.07.2023**

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

<b>Important Note:</b> Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			<b>UNIT - I</b>	<b>CO</b>	<b>PO</b>	<b>Marks</b>
	1	a)	List out applications of forensics in different fields.	CO1	PO	06
		b)	Mention six significant milestones in forensic science.	CO1	PO	06
		c)	Brief on importance and significance of courts in forensics.	CO 2	PO1	08
			<b>UNIT - II</b>			
	2	a)	With suitable schematic representation, detail on crime scene search pattern types.	CO2	PO1	08
		b)	List any five basic services provided by most crime labs.	CO1	PO	05
		c)	What is chain of custody? Why is it important to maintain chain of custody?	CO1	PO	07
			<b>OR</b>			
	3	a)	State the protocol of collection and packaging of evidence with examples.	CO2	PO1	10
		b)	Brief on services provided by document examination unit and firearms unit of Forensic lab.	CO2	PO1	10
			<b>UNIT - III</b>			
	4		Explain the significance and analysis of the following evidences in forensic science investigation: Glass, Hair, Paint, Blood stain pattern.	CO3	PO2	20
			<b>OR</b>			
	5		Illustrate a workflow and elucidate the steps for chromatographic techniques used in forensic analysis.	CO2	PO1	20

			<b>UNIT - IV</b>			
6	a)	A forensic anthropologist was given a skull and a pelvic girdle and was asked to identify the sex. The anthropologist identified the skull as belonging to male and the pelvic girdle to that of a female. On what basis did the anthropologist identify?		CO3	PO2	<b>10</b>
	b)	Identify patterns and explain the following images.  		CO2	PO1	<b>10</b>
			<b>UNIT - V</b>			
7	a)	Design a flowchart showing the procedure of collecting digital evidence.		CO2	PO1	<b>10</b>
	b)	Mention codes of ethics in use by forensic science organizations.		CO1	PO	<b>10</b>

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