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B.Sc. Part—I (Semester—I) Examination FORENSIC SCIENCE

(Basics of Forensic Science)

Tim	e : T	hree	Hours]	[Maximum Marks : 80			
			ALL questions are compulsory.				
		(2)	Question No. 1 carries 8 marks while each of	of remaining questions carry 12 marks.			
		(3)	Draw diagrams and write equations where	ver necessary.			
1.	(A)	Fill	in the blanks :—	2			
		(i)	Principles of Criminal Investigation was g	iven by scientist			
			Study of Lip Prints is known as				
			Examination of Rubber Stamps is done un				
	(D)		Cooling of the body is also known as				
	(B)		tiple Choice questions :—	2			
		(i)	Which of the following are chemical meth	ods of fingerprint development?			
			(a) Ninhydrin development				
			(b) Powder development techniques				
			(c) Laser Method for fingerprint development	ment			
			(d) All of above				
		(ii)	Considerable work in the field of Forensic	Science has been done by which of the			
			following Scientists?				
			(a) Hans Gross (b)	Calvin Goddard			
			(c) Albert Osbsorn (d)	Mathieu Orfila			
		(iii)	For Multicoloured Surfaces which of the	following fingerprint powder is most			
			suitable ?				
			(a) Silver Powder (b)	Fluorescent Powder			
			(c) Red Powder (d)	Black Powder			
		(iv)	VSC stands for :				
			(a) Virtual Spectral Comparator (b)	Video Spectral Comparator			
			(c) Video Stamp Comparator (d)	Video Spectral Combination			
	(C)	Ans	wer in one sentence :	4			
		(i)	What is Partial hanging?				
(ii) Define 'Forgery'.							
	(iii) What is 'Crime Scene' ? Enlist types of Crime Scene.						
		(iv)	What is Projected bloodstain pattern?				
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2.	(A)	Explain the following:—	4	
		(i) Locard's principle of Exchange.		
		(ii) Law of Individuality.		
	(B)	Give brief account on Historical Perspective in Forensic Science.	5	
	(C)	State the role of Investigating officer on a Crime Scene.	3	
		OR		
3.	(P)	Enlist various divisions of forensic science laboratories with proper explanation.	6	
	(Q)	Give a brief account on principles in forensic science.	6	
		UNIT—II		
4.	(A)	Explain the following terms:—	4	
		(i) Cast-off blood stain patterns		
		(ii) Void patterns		
		(iii) Angle of Impact		
		(iv) Passive blood stain patterns.		
	(B)	Explain Point of convergence and area of origin.	4	
	(C)	Give significance of bloodstain pattern analysis in forensic science.	4	
		OR		
5.	(P)	Explain the following :	4	
		(i) Arterial Blood stain pattern.		
		(ii) Transfer Blood stain pattern.		
	(Q)		4	
	(R)	Write in brief about 'History of forensic science'.	4	
721		UNIT—III		
6.	2023 (20)	Explain the role of Crime Scene Investigators.	4	
	120	Explain Biological theory of Criminal Behaviour.	4	
	(C)	Discuss collection and preservation of 'Biological Evidences' with examples.	4	
120.0	00222000	OR		
7.	20 00	Explain different Theories of Criminal behaviour in detail.	6	
	(Q)	Define Crime Scene Reconstruction. Explain the stages of Crime Scene Reconstruction		
		TINING TAY	6	
o	(4)	UNIT—IV	,	
8.		Give classification of fingerprint patterns.	4	
		Write in brief about Skid marks.	4	
	(C)	Give classification of Ear prints and its forensic significance.	4	
9.	OR O (D) What is sait mattern ? Cive its significance in formula science.			
٦.		What is gait pattern? Give its significance in forensic science. Explain 10 digit classification of fingerprints with examples.	6	
	(Q)	Explain to digit classification of inigerprints with examples.	6	

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10.	(A)	Define 'Forgery'. Explain its types.	6					
	(B)	How will you examine 'Questioned document' ?	4					
	(C)	What is Specimen Writing?	2					
	OR							
	(P)	Write in brief about 'Traced Forgery'.	4					
	(Q)	What is Electrostatic Detection Apparatus? How does it work?	6					
	(R)	What are Charred Documents ?	2					
		UNIT—VI						
12.	(A)	Explain the terms :—						
		(i) Postmortem Hypostasis						
		(ii) Cadeveric Spasm						
		(iii) Rigor Mortis						
		(iv) Asphyxia.	4					
	(B)	Explain various modes of Death.	4					
	(C)	Write a note on 'Early signs of Death'.	4					
OR								
13.	(P)	How will you identify age of Bruise? Give medicolegal significance of bruise.	4					
	(Q)	Give the difference between hanging and strangulation.	4					
	(R)	Explain the terms :—						
		(i) Cafe coronary						
		(ii) Throttling						
		(iii) Dying Declaration						
		(iv) Partial hanging.	4					

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