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

(Basics of Forensic Science)

Time : Three Hours]					[Maximum Marks: 80			
Note :-	(1)	ALI	L questions are compulsory.					
	(2)	Que	stion No. 1 carries 8 marks while	each	of remaining questions carry 12 marks.			
	(3)	Dra	w diagrams and write equations v	vhere	ever necessary.			
1. (A)	Fill	in th	ne blanks :—		2			
	(i)		ciples of Criminal Investigation	100	529 450			
			ly of Lip Prints is known as					
			mination of Rubber Stamps is do					
~~·			ling of the body is also known a	s				
(B)		3	Choice questions :—		2			
	(i)		(0.556)	met	hods of fingerprint development?			
		(a)	Ninhydrin development					
		(b)	Powder development techniques					
		(c)	Laser Method for fingerprint de-	velop	ment			
		(d)	All of above					
	(ii)	Con	siderable work in the field of Ford	ensic	Science has been done by which of the			
		follo	owing Scientists?					
		(a)	Hans Gross	(b)	Calvin Goddard			
		(c)	Albert Osbsorn	(d)	Mathieu Orfila			
	(iii)	For	Multicoloured Surfaces which o	following fingerprint powder is most				
		suit	able ?					
		(a)	Silver Powder	(b)	Fluorescent Powder			
		(c)	Red Powder	(d)	Black Powder			
	(iv)	VSC	C 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?							

UNIT-1

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)	Give detailed account on 'Growth of forensic science laboratories in India'.	4
	(R)	Write in brief about 'History of forensic science'.	4
		UNITIII	
6.	(A)	Explain the role of Crime Scene Investigators.	4
	(B)	Explain Biological theory of Criminal Behaviour.	4
	(C)	Discuss collection and preservation of 'Biological Evidences' with examples.	4
		OR	
7.	(P)	Explain different Theories of Criminal behaviour in detail.	6
	(Q)	Define Crime Scene Reconstruction. Explain the stages of Crime Scene Reconstruction	ion.
			6
		UNIT—IV	
8.	(A)	Give classification of fingerprint patterns.	4
	(B)	Write in brief about Skid marks.	4
	(C)	Give classification of Ear prints and its forensic significance.	4
		OR	
9.	(P)	What is gait pattern? Give its significance in forensic science.	6
	(Q)	Explain 10 digit classification of fingerprints with examples.	6

UNIT-V

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.							
	(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						