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

	(Basics of Fores	isic Science)
Time: Three	Hours]	[Maximum Marks: 80
N.B. :— (1)	ALL questions are compulsory.	
	Question No. 1 carries 8 (eight) mar 12 marks.	ks while each of the remaining questions carry
(3)	Draw diagram and write equation v	wherever necessary.
1. (A) Fill i	in the blanks :—	2
(i)	'Principle of Exchange' was propor	unded by
(ii)	The state forensic laboratory was e	stablished at calcutta in
(iii)	'Principle of document examination	n' was developed by
(iv)	Molecular death is also known as	death.
(B) Mult	iple choice questions :	2
(i)	Rigor mortis is :	
	(a) Stiffening of body	(b) Pugilistic attitude of body
	(c) Electric shock	(d) Trauma
(ii)	Adipocere formation is also known	as:
	(a) Mummification	(b) Cooling of body
	(c) Time since interval	(d) Saponification
	The reproduction of patterns of the fingers and thumbs are called as:	friction ridges on the distal phalanges of the
	(a) Sutures	(b) Tyre marks
	(c) Finger prints	(d) Foot print
(iv)	Dying declaration comes:	
	(a) Under section 34 I.P.C.	(b) Under section 32 I.E.A.
1	(c) Under section 32 I.P.C.	(d) Under section 32 Bombay Act
VTM—13345	1	(Contd.)

	(C)	Answer in ONE sentence :—	4
		(i) Define physical evidence.	
		(ii) What is somatic death ?	
		(iii) What is document ?	
		(iv) What is spattered blood ?	
		UNIT—I	
2.	(a)	Define Forensic Science. Explain its nature and functions.	3
	(b)	Explain historical development of forensic science.	3
	(c)	Write down the roles of forensic scientist.	3
	(d)	Explain the following laws:	
		(i) Law of individuality	
		(ii) Law of progressive change.	3
		OR	
3.	(p)	Explain the international agency.	4
	(q)	Explain the organizational set up of Forensic Science Laboratory (F.S.L.) in centra state level.	al and 4
	(r)	What is the educational qualification and training of Forensic Scientist?	4
		UNIT—II	
4.	(a)	Write down the following divisions in the Forensic Science Laboratory (F.S.L.)):
		(i) Ballistic Division	
		(ii) Lie-detection Division	
		(iii) Biology Division.	6
	(b)	Explain directionality of bloodstain with proper diagram.	3
	(c)	Explain grid and perimeter ruler method.	3
		OR	
VTN	113	345 2 (0	Contd.)
		- 1	/

www.sgbauonline.com

5.	(p)	Explain the following patterns:	
	4.7	(i) Expirated pattern	
		(ii) Drip pattern.	4
	(q)		4
	(r)	What is Transfer pattern? Explain forensic significance of it.	4
		UNIT—III	
6.	(a)	Explain crime scene survey in detail.	4
	(b)	Explain the role and duties of first responding officer.	4
	(c)	Define physical evidence. Explain the importance of physical evidence in cinvestigation.	criminal 4
		OR	
7.	(p)	What is crime scene reconstruction? Explain forensic significance of it.	4
	(q)	Define crime scene. Discuss criminal behaviour.	4
	(r)	Write down the components of crime scene management:	
		(i) Information Management	
		(ii) Logistic Management.	4
		UNIT—IV	
8.	(a)	Write in brief on Gait Pattern.	4
	(b)	Write in brief on development of latent fingerprint by powder method.	4
	(c)	Explain the lifting of footprint.	4
		OR	
9.	(p)	Explain the collection of footprint.	4
	(q)	Write in brief nature and location of fingerprint.	4
	(r)	Explain forensic significance of Lip print and Ear print.	4
VT]	M—13	3345 3	(Contd.)

www.sgbauonline.com

UNIT--V

10.	(a)	Explain the following terms:—	
		(i) Erasure	
		(ii) Alteration.	4
	(b)	Write in brief handling and preservation of documents.	4
	(c)	Explain the principle of handwriting identification.	4
		OR	
11.	(p)	What are class characteristics of handwriting?	4
	(q)	How to obtain request writing for comparison?	4
	(r)	Discuss order of writing.	4
		UNIT—VI	
12.	(a)	Explain any four unnatural offences.	4
	(b)	Explain the following term:	
		(i) Medical certificates	
		(ii) Medicolegal reports.	4
	(c)	Define Hanging. Explain types of Hanging.	4
		OR	
13.	(p)	Define Injury. Explain abrasion in detail.	4
	(q)	Write a note on determination of time since death.	4
	(r)	Explain early changes of death.	4