M.Sc. Part—I Semester—I (C.B.C.S. Scheme) Examination BIOCHEMISTRY

(Analytical Technique)

Paper—II

		- up		
Tim	e : Th	[Maximum Marks	[Maximum Marks: 80	
	Note	e:— All questions are compulsory and carry equal marks.		
1.	Desc	cribe in detail general scheme for purification of bio components.	16	
OR				
	Des	cribe in brief methods for lysis of plant, animal and microbial cells.	16	
2.	Exp	lain in detail the principle, method and applications of HPLC.	16	
		OR		
	Describe in detail the principle, method and applications of Ion Exchange Chromatography. 10			
3.	. Describe the following :—			
	(a)	2 D-Electrophoresis.	8	
	(b)	Isoelectric Focussing.	8	
OR				
	(p)	Gel Electrophoresis.	8	
	(q)	Western blotting.	8	
4.	Des	cribe in brief:—		
	(a)	Principle of UV-visible spectrophotometer.	5	
	(b)	Applications of mass spectroscopy.	5	
	(c)	Atomic emission and absorption.	6	
OR				
	(p)	ESR.	5	
	(q)	NMR.	5	
	(r)	X-ray diffractions.	6	
5.	Des	scribe the following:—		
	(a)	Principle of tracer technique.	5	
	(b)	Isotopic Labeling.	5	
	(c)	Autoradiography.	6	
OR				
	(p)	Applications of tracer technique.	5	
	(q)	Measurements of isotopes.	5	
	(r)	Liquid scintillation counting.	6	
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