AU-250

## M.Sc. (Part-I) Semester-I (C.B.C.S. Scheme) Examination

## MICROBIOLOGY

## (Microbial Techniques)

		Paper—I	
Tim	e:T	[Maximum Marks :	80
1.		plain maintenance of protein structure conformation by pH dependent ionization of its constitu- ino acids.	
	ami	OR	16
	, .		
	(a)	Give a systematic account on destruction of non-protein component by change in pH.	8
	(b)	Take an overview on metabolic reactions involving proton.	8
2.	(a)	Describe instrumentation of IR spectroscopy.	8
	(b)	Explain principle of UV-visible spectroscopy. Add notes on its application.	8
		OR	
	(e)	Explain working of fluorescence spectroscopy.	8
	(d)	On what principles does NMR and ESR work? Add notes on its applications.	8
3.	Ехр	plain in detail liquid scintillation counting; mention various types of radioactive disintegration	ns. 16
		OR	
		cribe the kinetics of half life period of radioactive disintegrations. Explain the biological applicational dependence of the properties of the properties of the period of radioactivity.	ons 16
4.	Elab	borate in detail molecular sieving chromatography.	16
		OR	
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	(a) Explain in detail affinity chromatography.	5
	(b) Enlist the applications of high performance liquid chromatography.	8
5.	Take a detailed insight to slab gel electrophoresis with relevance to working and applicat	ions.
		16
	OR	
	Explain in detail principle, applications and detection of biomolecules in paper chromatog	raphy 16

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125