Time: 2 ½ Hours			Marks - 60
	N.B.	1. All questions are compulsory.	
		2. Draw neat labeled diagrams wherever necessary.	
		3. All questions carry equal marks.	Solar Solar
Q.1 a	Explain the principle and practice of TLC. Add a note on uses of TLC.		12
		SOR SOR	
Q.1 b	Illustratively elaborate on the principles underlying chromatographic separation.		on. 12
Q.2 a	Give an account on normal and reverse phase HPLC.		12
		OR STOR	
Q.2 b	Discuss in detail the principle and instrumentation of HPLC.		12
Q.3 a	Explain with suitable diagram, principle, Instrumentation and application of Gas		ion of Gas 12
	chromatography		
		OR	
Q.3 b	Elaborate on different injection techniques used in GC systems.		12
Q.4 a	Describe Electromagnetic spectrum with examples.		12
		OR	
Q.4 b	Elaborate on UV-Visible spectrophotometer with suitable diagram.		12
Q.5	Write Short no	ote on the following (ANY THREE)	12
a.	Derivatisation i	n TLC	
b	Criteria for Selection of Liquid Stationary Phase		
c.	Modification of stationary phase - endcapping		
d.	Turbidimetry		
e.	Application of A	AAS	