Total Marks: 50

No	te: -	
1. Attempt all questions.		
	Draw neat labeled diagrams wherever necessary.	
	Figures to the right indicate full marks	
J. 1	rigures to the right moreate run marks	750),
Q.1	Answer the following (Any 2)	10
1	With the help of suitable example explain the principle underlying affinity	
1	chromatographic separation.	
2	Describe the process of TLC.	
3	Explain the principle and practice of TLC.	
4	Discuss the detection of compounds on TLC plates.	
Q.2	Answer the following (Any 2)	_\10
1	Discuss in detail instrumentation of HPLC.	
2	Enlist the different factors that affect column efficiency.	
3	Give an account on reverse phase HPLC.	
4	Discuss any two types of detectors used in HPLC.	
		10
Q.3	Answer the following (Any 2)	10
1	Give an account on application of Gas chromatography.	
2 3	Elaborate on Split less injection techniques in Gas Chromatography.	
	Write a detailed note on different types of columns used in GC.	
4	What are the criteria for selection of liquid stationary phase in GC?	
0.4.5		10
Q.4	Answer the following (Any 2)	10
	Elaborate on different types of light source used in spectroscopy.	
2 3	Discuss in detail the principle and instrumentation of Nephelometry. Write a note Radiowaves and Microwaves.	
4		
4	Elaborate on UV-Visible spectrophotometer.	
0.5	Short Notes on (Any 2)	10
Q.55	Short Notes on (Any 2) Visualization in TLC	10
2	Recent advances in HPLC	
3	PLOT	
4	Atomic Spectroscopy	
7.0	Atomic Specioscopy	
	80°, '84', '70', '84', '84', '84', '84', '84', '84', '84', '84', '84', '84', '84', '84', '84', '84', '84', '84	
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2 Hours