Roll No. of Pages : 01 Total No. of Questions : 06				
	M.F	Pharma(Pharmaceutical Chemistry) (2017 & Onwards) (Sem2)  ADVANCED SPECTRAL ANALYSIS  Subject Code: MPC-201T  M.Code: 74955		
Tim	e:	3 Hrs. Max. Marks : 7	Max. Marks: 75	
INS 1. 2.	At	JCTIONS TO CANDIDATES: tempt any FIVE questions. ach question carries FIFTEEN marks.		
1.	Explain in brief:			
	a.	MC Lafferty Rearrangements	(3)	
	b.	NOESY	(3)	
	c.	Meta stable ions	(3)	
	d.	HPLC detectors	(3)	
	e.	Principle of Raman spectroscopy	(3)	
2.	a.	Give the principle, instrumentation and application of DSC. (7.	.5)	
	b.	Write a short note on ELISA. (7.	.5)	
3.	Gi	Give a brief overview and applications of Super critical fluid chromatography. (15)		
4.	a.	Discuss in details the electron impact and FAB type of ionization techniques in Ma spectrophotometry. (1	ass (0)	
	b.	Explain interfaces of GC-MS.	(5)	
5.	a.	Name and define the law useful to determine the frequency of various types of bands. Discuss its applications.	IR (8)	
	b.	Define woodfischer rule and how do you calculate the absorption maximu wavelength for Dienes with Woodward Fieser Rule?	ım (7)	

(7.5)

a. Name Liquid chromatography hyphenated techniques and discuss any one in detail.

b. Discuss different types of ionization methods in mass spectrophotometry in detail. (7.5)

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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