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Roll No. of Questions : 06				
	МО	M.Pharmacy(Pharmacology) (2017 & Onwards DERN PHARMACEUTICAL ANALYTICAL Subject Code: MPL-101T M.Code: 74675	, , ,	
Tim	e : 3	B Hrs.	Max. Marks: 75	
INS 1. 2.	Atte	CTIONS TO CANDIDATES : empt any FIVE questions out of SIX questions. h question carries EQUAL marks.		
1.	tra	Discuss the theory of UV-visible spectroscopy including the concepts of energy level, transition types, chromophores and the laws of absorption spectroscopy with their limitations.		
2.	a.	Explain the phenomenon of DEPT with appropriate importance?	examples. What is its 7	
	b.	Write down the applications of IR spectroscopy.	8	
3.	a.	Write down the salient features of GC detectors. Give print two detectors in details.	nciple and working of any 8	
	b.	Give the principle and applications of flame spectroscopy.	7	
4.	a.	Describe the principle and any two types of ionization meth	ods of mass spectroscopy.	
		220	10	
	b.	Discuss the theory of fluorescence with Jablonski diagram.	5	
5.	W	rite short notes on the following:	3×5 = 15	
	a.	Applications of potentiometry.		
	b.	Principle and instrumentation of TGA.		
	c.	Modulated DSC and hyper DSC.		
6.	W	rite briefly on the following:	3×5=15	
	a.	Moving boundary electrophoresis.		
	b.	Types of crystals and applications of X-ray diffraction.		

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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.

c. Advantages and Disadvantages of Differential Thermal Analysis (DTA).

