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Roll No. of Questions : 06			s : 01
	МО	M.Pharmacy(Pharmacology) (2017 & Onwards) (Sem1) DERN PHARMACEUTICAL ANALYTICAL TECHNIQUES Subject Code: MPL-101T M.Code: 74675	
Tim	e : 3	Hrs. Max. Marks	: 75
INS 1. 2.	Atte	CTIONS TO CANDIDATES : empt any FIVE questions out of SIX questions. h question carries FIFTEEN marks.	
Q1.	a)	Explain the principle and applications of atomic absorption spectroscopy in discovery.	drug (7)
	b)	Discuss various factors that affect UV spectra of a compound.	(8)
Q2.	a)	What do you understand by the terms Spin-spin coupling, coupling constant double resonance? Discuss various factors affecting them.	and (10)
	b)	Elaborate on applications of NMR in the field of drug discovery.	(5)
Q3.	a)	Explain mass fragmentation with suitable examples. Discuss various rules that go mass fragmentation.	vern (9)
	b)	Discuss the principle of MALDI, APCI, and TOF.	(6)
Q4.	a)	You have to develop an analytical method on HPLC. What are the various factors have to keep in mind that can effect the resolution?	s you (8)
	b)	Discuss principle and applications of potentiometric analysis.	(7)
Q5.	a)	Compare Gel and capillary electrophoresis on the basis of their princinstrumentation and applications.	ciple, (8)
	b)	Give the principle of HPTLC and its applications in the field of pharmacology.	(4)
	c)	Explain the principle of Moving boundary electrophoresis and XRD.	(3)
Q6	a)	Give the principle, instrumentation and application of DSC in pharmaceu industry.	itical (8)
	b)	Compare GC and UPLC on the basis of principle, sensitivity and instrumentation	. (7)
NO	TE:	Disclosure of Identity by writing Mobile No. or Making of passing request on	any



1 | M-74675

page of Answer Sheet will lead to UMC against the Student.