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Roll No. of Questions : 06			: 01
		narma(Pharmaceutical Chemistry) (2017 & Onwards) (Sem1 DERN PHARMACEUTICAL ANALYTICAL TECHNIQUES Subject Code: MPC-101T M.Code: 74663	
Tim	e : 3	B Hrs. Max. Marks	: 75
INS1 1. 2.	Atte	CTIONS TO CANDIDATES : empt any FIVE questions out of SIX questions. th question carries FIFTEEN marks.	
1.	a.	Write down the theory and modes of molecular vibrations in IR spectroscopy.	5
	b.	Describe the theory and the laws of UV-visible spectroscopy.	5
	c.	Discuss the factors affecting fluorescence.	5
2.	a.	Write down the applications of NMR spectroscopy.	10
	b.	Discuss the spin-spin coupling.	5
3.	W	rite short notes on the followings:	
	a.	Thin layer chromatography.	5
	b.	Ultra high performance chromatography.	5
	c.	Gas chromatography.	5
4.	a.	Discus the "Nitrogen rule" with appropriate examples.	5
	b.	Describes the FAB and MALDI.	10
5.	Di	scuss the following:	
	a.	Pharmaceutical applications of potentiometry.	5
	b.	Factors affecting results in TGA.	5
	c.	Principle of Thermal techniques and thermal transitions.	5
6.	W	rite briefly on the following :	
	a.	Capillary electrophoresis.	5
	b.	Applications of X-ray diffraction.	5
	c.	Pharmaceutical applications of DSC.	5
NO	TE:	Disclosure of Identity by writing Mobile No. or Making of passing request or	ı any

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

