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	Total No. of Questions : 06	es: 01
N	I.Pharmacy (Pharmacuetical Analysis) (2017 & Onwards) (Sem MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUE Subject Code: MPA-101T M.Code: 74693	•
Tim	e: 3 Hrs. Max. Marks	: 75
INST 1. 2.	RUCTIONS TO CANDIDATES: Attempt any FIVE questions out of SIX questions. Each question carries FIFTEEN marks.	
1.	Discuss the principles, instrumentation and applications of IR spectroscopy with examples and/or flow charts.	suitable 15
2.	a. Discuss chemical shifts and coupling in NMR.	7
	b. Write a note on principles and applications of NMR.	8
3.	Describe the principles, instrumentation, procedure and applications of Spectroscopy with suitable examples and/or flow charts.	f Mass 15
4.	Give a detailed account on the principles, instrumentation and applications of UP	LC. 15
5.	Write short notes on the following:	
	a. Gel Electrophoresis	8
	b. Principles, working and applications of DSC	7
6.	Discuss the following with suitable examples:	
	a. DTA	5
	b. Applications of potentiometry	5
	c. Atomic absorption spectroscopy	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.

**1** M-74693 (S31)-559