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M.Pharmacy (Pharmaceutics) (2017 & Onwards) (Sem.-1) **MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES** Subject Code : MPH-101T M.Code: 74657

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INS	TRUCTIONS TO CANDIDATES :	
1.	Attempt any FIVE questions out of SIX questions.	
2.	Each question carries EQUAL marks.	
1.	What is the Principle, instrumentation and applications of U.V visible spectroscopy	?
2.	Write a note on Proton NMR. How it is different from the usual NMR process?	(
3.	a) What is Mass fragmentation? Discuss its rules.	(
	b) Discuss the isotropic peaks in mass spectroscopy	

Wı	rite a note on Proton NMR. How it is different from the usual NMR process?
a)	What is Mass fragmentation? Discuss its rules.

b)	Discuss the isotropic peaks in mass spectroscopy.	(5)

- 4. a) Explain the principle, apparatus and instrumentation of HPLC. (10)
 - b) Discuss the major applications of column chromatography. (5)
- a) Write a note on X-Ray diffraction methods. 5. (10)
 - b) Discuss Bragg's I.aw. (5)
- Write a note on the following : 6.

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- a) ELISA (7)
- b) Isoelectric focusing electrophoresis (8)

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

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any

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Time: 3 Hrs.

Total No. of Pages : 01

Total No. of Questions : 06

Roll No.



Max. Marks: 75

(15)

(15)

(10)