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	I No. U T al No. of Questions : 06	otal No. of Pages : 01
	M.Pharmacy(Pharmaceutical Analysis) (2017 B ADVANCED INSTRUMENTAL ANA Subject Code: MPA-201T M.Code: 74925	, ,
Time: 3 Hrs. Max. Marks: 7		
INS ¹ 1. 2.	TRUCTIONS TO CANDIDATES: Attempt any FIVE questions out of SIX questions. Each question carries FIFTEEN marks.	
Q1.	Write a note on :	
	A. Ion exchange chromatography.	5
	B. HPLC in chiral analysis of pharmaceuticals.	5
	C. Capillary Electrophoresis.	5
Q2.	A. Discuss principle, instrumentation and solvent requirement	in NMR. 8
	B. Discuss briefly about FAB and chemical ionization mass sp	ectrometry. 7
Q3.	A. Write about general principles of affinity chromatography and mobile phases used in affinity chromatography.	. Write a note on stationary
	B. Write a note on detectors used in HPLC.	7
Q4.	A. Elaborate on different mass analyzers.	8
	B. Write briefly about principle of FT-NMR with reference to	¹³ C-NMR. 7
Q5.	Write a note on following:	
	A. Coupling constant.	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.

B. Discuss principle and application of super critical fluid chromatography.

B. Matrix Assisted Laser Desorption (MALD)

C. Applications of NMR spectroscopy.

Q6. A. Write a note on CE-MS hypenation.

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