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## **FACULTY OF PHARMACY**

## M. Pharmacy (Pharm. Analysis) II-Semester (PCI) (Main) Examination, August 2018

**Subject: Advance Instrumental Analysis** 

Time: 3 Hrs Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks.

1		Explain abt varis types of column s and column problems in HPLC. Write the principle and advantages of Ultra and Nano liquid chromatography	(9) y? (6)
2	b.	Discuss abt ion exchange chromatography and write in detail abt its applications? Explain the varis components of HPTLC and write its advantages over column chromatography?	(7) (8)
3	_	Write abt varis detectors used in GLC? Explain the principle and basic configuration of capillary electrophoresis?	(10) (5)
4	Ela	borate with neat sketch, the instrumentation of mass spectrometry?	(15)
5		What do y mean by chemical shift? Explain the varis factors influencing it?  Explain abt nuclear dble resonance and its applications?	(10) (5)
6	S	Mention varis tandem MS/MS systems and explain any one briefly with neat sketch? Discuss the principle and applications of size exclusion chromatography?	(9) (6)
7		Explain abt preparative HPLC? Discuss abt FT NMR with reference to C <sup>13</sup> NMR	(7) (8)
8		Explain abt LC -NMR hyphenation. Write abt fragmentation ruleS in MS?	(9) (6)

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