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Roll No. of Pages : 02 Total No. of Questions : 06			
•		arma (Pharmaceutical Chemistry) (2017 & O DERN PHARMACEUTICAL ANALYTICA Subject Code : MPC-101T M.Code : 74663	
Time: 3 Hrs. Max. Marks: 7			
INS 1. 2.	Atte	CTIONS TO CANDIDATES : Impt any FIVE questions out of SIX questions. In question carries FIFTEEN marks.	
Q1	a)	Describe various detectors used in IR spectroscopy.	(5)
	b)	Write a note on different types of interferences in Atomic	Absorption Spectroscopy. (5)
	c)	Explain the various factors affecting vibrational frequence	y. (5)
Q2	a)	What are chemical equivalence and magnetic equivalence	e in NMR? (5)
	b)	Explain Deshielding and anisotropic effect.	(5)
	c)	Describe principle and application of ¹ H NMR.	(5)
Q3	a)	Draw schematic diagram of mass spectrophotometer. I different parts.	Describe the working of its (10)
	b)	Explain 'Electron Impact Ionization' in mass spectrophot	ometry. (5)
Q4	a)	Explain principle and instrumentation in HPLC.	(5)
	b)	Explain the terms: Ion Exchange Chromatography and A	ffinity Chromatography. (5)
	c)	Write a short note on detectors used in Gas Chromatograp	phy. (5)
Q5	a)	Discuss different X-ray diffraction techniques.	(5)
	b)	Write a note on application of various types of Electrophe	oresis. (10)
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Q6 a) Write a short note on following:

i. Principle of DSC

ii. Principle of TGA

iii. DDTA

b) Explain the principle of DTA?

(5)

c) Write a short note on principle and working of Potentiometry.

(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.

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