1 | M-74699

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Roll	No.	Total No. of	f Pages : 01
Tota	al No	o. of Questions : 06	•
ı	M.Ph	armacy(Pharmaceutical Quality Assurance) (2017 & C (Sem1)	nwards)
MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES Subject Code: MQA-101T M.Code: 74699			
Tim	e : 3		Marks: 75
INST 1. 2.	Atte	FIONS TO CANDIDATES: mpt any FIVE questions out of SIX questions. n question carries FIFTEEN marks.	
1.	An	swer the following questions in brief:	
	A.	Beer-Lambart's law	5
	B.	Factors affecting vibrational frequencies	5
	C.	Coupling constant	5
2.	A.	Discuss principle, instrumentation and applications of flame emission	spectroscopy. 8
	B.	Discuss briefly the principle of FT-NMR and ¹³ C-NMR	7
3.		Write about principle, instrumentation and pharmaceutical application scanning calorimetry (DSC).	s of differential
	B.	Elaborate on SDS-PAGE gel electrophoresis technique.	7
4.	A.	What is Bragg's law in X-ray crystallography? Discuss about diffraction methods.	different X-ray 8
	B.	Discuss about different detectors used in gas chromatography.	7
5.	Wı	ite short notes on following:	
	A.	Isoelectric focusing	5
	B.	Factors influencing chemical shift	5
	C.	Explain derivative differential thermal analysis	5
6.	A.	Discuss different types of mass analyzers used in mass spectroscopy.	8
	B.	Write about principle, working and applications of potentiometry.	7
NO	ТЕ :]	Disclosure of Identity by writing Mobile No. or Making of passing r page of Answer Sheet will lead to UMC against the Stude	-

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