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Roll	No.	Total No. of Pages :	01
Tota	al No	o. of Questions : 06	
1	M.Ph	narmacy(Pharmaceutical Quality Assurance) (2017 & Onwards) (Sem1)	
	MO	DERN PHARMACEUTICAL ANALYTICAL TECHNIQUES Subject Code: MQA-101T M.Code: 74699	
Tim	e : 3	Hrs. Max. Marks: 75	,
INST	BIIC	TIONS TO CANDIDATES :	
1. 2.	Atte	empt any FIVE questions out of SIX questions. h question carries FIFTEEN marks.	
1.	An	nswer 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	y. 8
	B.	Discuss briefly the principle of FT-NMR and ¹³ C-NMR	7
3.	A.	Write about principle, instrumentation and pharmaceutical applications of different scanning calorimetry (DSC).	tial 8
	B.	Elaborate on SDS-PAGE gel electrophoresis technique.	7
4.	A.	What is Bragg's law in X-ray crystallography? Discuss about different X-diffraction methods.	ray 8
	B.	Discuss about different detectors used in gas chromatography.	7
5.	Wı	rite 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
		Write about principle, working and applications of potentiometry.	7
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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