(S7)780



1 | M-74657

	I No. of Questions : 06	Total No. of Pages: 01
	M.Pharmacy (Pharmaceutics) (2017 & MODERN PHARMACEUTICAL ANAL Subject Code: MPH-Paper ID: [74657	YTICAL TECHNIQUES
Tim	e: 3 Hrs.	Max. Marks: 75
INS ⁻ 1. 2.	TRUCTIONS TO CANDIDATES: Attempt any FIVE questions out of SIX question Each question carries EQUAL marks.	ns.
1.	a. What are the limitations of Beer -Lambert law	(5)
	b. What are the factors affecting vibrational frequent bonding.	
	c. Explain the principle of Flame emission spectrosco	(5) opy. (5)
2.	a. What are the factors affecting fluorescence.	(5)
	b. Comment on solvents used in NMR.	(5)
	c. Explain role of coupling constant in interpretation	of ¹ H NMR spectrum. (5)
3.	a. Give comparative statements of various ionization	methods used in MASS spectrometry (9)
	b. Briefly explain following in Mass spectrometry :	(6)
	Meta stable ion, Mc Lafferty rearrangements and N	Nitrogen rule
4.	a. What is the principle of Ion exchange chromatogra	aphy? (5)
	b. Give block diagram of typical HPLC apparatus.	(5)
	c. Describe the pharmaceutical applications of GLC	(5)
5.	a. Describe polyacrylamide gel as electrophoretic ma	trices. (5)
	b. What is isoelectric focusing?	(5)
	c. What is operative equation in X-ray diffraction?	(5)
6.	Explain the basic principle of ELISA. Describe vario of enzyme activity and drugs in biological fluids.	ous type of ELISAs used in estimation (15)