www.FirstRanker.com

www.FirstRanker.com

		otal No. of Pages : 01
Total No. of Questions: 06 M.Pharmacy (Pharmaceutical Analysis) (Sem1) MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES Subject Code: MPA-101T M.Code: 74693 Time: 3 Hrs. Max. Marks: 7		
INST 1. 2.	TRUCTIONS TO CANDIDATES: Attempt any FIVE questions out of SIX questions. Each question carries FIFTEEN marks.	
1.	Write briefly:	
	a. Define Beer lamber's law	$(2\times7+1=15)$
	b. Coupling constant	
	c. What are hysochromic and hyperchromic shifts?	
	d. Types of pumps in HPLC	
	e. Define retention time and column efficiency	
	f. Nernest equation	
	g. What is the Full form of FAB?	
2.	Discuss in brief the various thermal method of analysis g disadvantages of each	giving their advantages and (15)
3.	Give the principle of Ion Exchange chromatography and brid used for it.	efly describe the exchangers (10)
	Give a brief outlines of principle of Flourimetry	(5)
4.	Write short notes on :	
	a. Ultra high performance liquid chromatography	(5)
	b. Capillary electrophoresis	(5)
	c. Metastable ions and isotopic peaks	(5)
5.	Comment on analytical and guard columns in HPLC	(10)
	Explain Index of hydrogen deficiency	(5)
6.	Discuss the theory of flourimetry. Discuss the factors ecompound. Mention advantages of flourimetry over UV.	effecting fluorescence of a (15)
NO	OTE: Disclosure of Identity by writing Mobile No. or Making page of Answer Sheet will lead to UMC again	

1 M-74693 (S31)-2343