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Roll		-	No. of Pages : 01	
		o. of Questions: 06 M.Pharmacy (Pharmaceutical Analysis) (Ser DERN PHARMACEUTICAL ANALYTICAL TE Subject Code: MPA-101T M.Code: 74693	,	
			Max. Marks: 75	
INST 1. 2.	Atte	TIONS TO CANDIDATES : empt any FIVE questions out of SIX questions. th question carries FIFTEEN marks.		
1.	W	rite briefly :		
	a.	Define Beer lamber's law	(2×7+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 giving their advantages and disadvantages of each (15)		
3.		ve the principle of Ion Exchange chromatography and briefly de ed for it.	escribe the exchangers (10)	
	Gi	ve a brief outlines of principle of Flourimetry	(5)	
4.	W	rite short notes on :		
	a.	Ultra high performance liquid chromatography	(5)	
	b.	Capillary electrophoresis	(5)	
	c.	Metastable ions and isotopic peaks	(5)	
5.	Co	omment on analytical and guard columns in HPLC	(10)	
	Ex	plain Index of hydrogen deficiency	(5)	
6.		scuss the theory of flourimetry. Discuss the factors effection impound. Mention advantages of flourimetry over UV.	ng fluorescence of a	
NO	TE:	Disclosure of Identity by writing Mobile No. or Making of par page of Answer Sheet will lead to UMC against the		

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