T.Y.B.PHARM. SEMESTER-V (CBCS - 2015 COURSE) : SUMMER - 2018

		SU	UBJECT : PHARMACEUTICA	L ANALYSIS-III			
Day Date	:	Tuesday 24/04/2018	S-2018-3928	Time: Max. Marks: 60.	10.00 AM TO) 01.00 PM	
N. B.	:						
	1) 2) 3)	Q. No. 1 and Q. No. 5 are COMPULSORY. Out of the remaining solve An TWO questions each from section-I and Section-II. Answers to the two sections should be written in SEPARATE answer books Figures to right indicates FULL marks.				•	
			SECTION-I		. , , , , , , , , , , , , , , , , , , ,		
Q. 1	a)b)c)d)e)f)	Attempt any FIVE of the following Define the terms Chromatography and Partition coefficient. Explain the relation between Theoretical plates (N) and HETP (H). Give the principle of Column chromatography. How will you separate mixture of Amino acid by Paper chromatography. Give advantages and disadvantages of Paper chromatography. Channeled or loosely packed columns provide poor or insufficient separation, Why?				(10)	
Q. 2	a)	Describe the	Rate theory of chromatography i	n detail.		(07)	
	b)	Give advanta	ages and disadvantages of Colum	n chromatography.		(03)	
Q. 3	a)	Discuss in d	etail packing techniques in Colum	nn chromatography.		(07)	
	b)	Give the var	ious stationary phases used in Par	er chromatography.		(03)	
Q. 4	a) b) c)	Column char Applications	notes on any TWO of the following racteristics is of Paper chromatography on of chromatography	ng		(10)	
			SECTION-II	I			
Q. 5	a)b)c)d)e)f)	Define the te Give the assi Give the idea Write note o Give advanta	FIVE of the following erms Retention time and Retention ay procedure for Hyoscine hydrobal properties of carrier gas used in separation of cations by Ion excapes of Gel permeation chromatogon sample injection system in Gas	oromide injection. Gas chromatograph hange chromatograp graphy.		(10)	
Q.6	a)	Discuss the Gas chromat	principle of Gas chromatography tography.	. Add a note on colu	mns used in	(07)	
	b)	Discuss the	applications of Gas chromatograp	hy.		(03)	
Q.7	a)	What do you mean by Ion exchange chromatography. Explain in detail of Ion exchange resins.		detail types	(07)		
	b)	Explain in b	rief Ion exchange capacity.			(03)	
Q. 8	a) b) c)	Temperature Applications	notes on any TWO of the following programming system in Gas chross of Ion exchange chromatography used in Gel permeation chromatography	ommatography /		(10)	

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