T.Y.B.PHARM. SEMESTER-V (2011 COURSE): SUMMER - 2018 SUBJECT: PHARMACEUTICAL ANALYSIS - III

Day: Date:			0.0010.0064		Time: 10.00 AM TO 01.00 PM Max. Marks: 80		
N.B.:							
	1)	Q. No. 1 and Q. No. 5 are COMPULSORY. Out of the remaining questions					
	2)	solve any					
	2)		the right indicate FULL marks.	. : SEDADATE	1	1	
	3)	Answers to both the sections should be written in SEPARATE answer book.					
			SECTION-I				
Q.1		Answer any I	FIVE of the following:			(10)	
	a)		es that lead to band broadening.			()	
	b)	•					
	c)	Enlist characteristics of an ideal Gas chromatographic detector.					
	d)	Discuss in brief Rota meter. Explain the term 'HETP'.					
	e) f)	•	ion between Rf and Rx values.				
Q.2	a)	Enlist all the	detectors used in GC. Explain in det	tail any two		(08)	
	b)		tail Plate Theory and Rate Theory.	turi uriy two.		(07)	
	,	•	•			(* ')	
Q.3	a)		columns used in GC.			(07)	
	b)		rarious elution techniques used in cl	hromatography	Add a note	(05)	
		on applications of GC.					
Q.4		Write short no	otes on any THREE of the followin	g:		(15)	
	a)		of chromatographic methods			、 /	
	b)	Temperature j	programming in GC				
	c)	Types of carri	-				
	d)	Advantages of					
			SECTION-II				
Q.5		Solve any FIV	VE of the following:			(10)	
	a)	What are the	various techniques used for detecting	ng colourless spo	ts in paper		
		chromatograp	•	_			
	b)	• •	solvents used in paper chromatogra				
	c)		advantages offered by paper chroma	tograpny?			
	d) e)	•	fRf value in chromatography. ion of gels in gel permeation chroma	atogra n hy			
	f)		properties of Ion exchange resins.	atograpity.			
0.6	۵)	Evnlain differ	ent development modes in Paper ch	romatogra n hy		(08)	
Q.6	a) b)		ciple of separation in Ion exchange		v. Explain	(07)	
	D)	with suitable		o om omatograpi.	j. Zapam	(07)	
o =	,	D -1 * -1	and animal of Caller Care	nata amantas - A 11	a nota ==	(00)	
Q.7	a)		nechanism of Gel permeation chron f Gel Permeation chromatography.	natography. Add	a note on	(08)	
	h)	* *	rarious types of separation by electro	nhoresis? Explai	n any one	(07)	
	b)	vv nat are the v	arroas types of separation by election	prioresis. Explai	in uniy One.	(0,)	
Q.8			otes on any THREE of the following			(15)	
	a)		nematic of capillary electrophoresi	s system and la	ibel major		
	1. \	components	f Cal ahuamata ayanba				
	b)	_	f Gel chromatography al Applications of Ion- Exchange ch	romatography			
	c) d)		inciple of separation by Paper chron				
	u)	Explain the pr	merpre or separation by Paper enron	natograpny			