T.Y.B.PHARM. SEMESTER-VI (2011 COURSE) : SUMMER - 2018

SUBJECT: PHARMACEUTICAL ANALYSIS - IV

Day Date	:	Monday 23/04/2018	S-2018-3971	Time: 10.00 AM TO 01.00 PM Max. Marks: 80	M		
N. B.	 Q.No.1 and Q. No.5 are COMPULSORY. Out of the remaining questions attempt Any TWO from each section. Answers to both the sections should be written in SEPARATE answer books. Figures to the right indicate FULL marks. 						
			SECTION	- I			
Q.1	a) b)	What are the different methods used in column packing in HPLC technique.					
	c) d) e) f)	Compare betw What are the a	een HPLC and HPTLC. dvantages and disadvantage requirements for TLC.				
Q.2	a) b)		il various applications of roperties and working of		(07) (08)		
Q.3	a) b)		us factors affecting separa		(07) (08)		
Q.4	a)b)c)d)	Reciprocating y Visualizing ago Guard column	ents used in TLC in HPLC	e following:	(15)		

SECTION - II

Q.5		Solve Any FIVE of the following:	(10)				
	a)	Enlist the supercritical fluids. Give their properties. Define the terms R_f value and R_x value.					
	b)						
	c)	Give the adulterants found in turmeric powder.					
	d)	How instrumentation for SFC does differ form Gas chromatography.					
	e)	Give the advantages of HPTLC technique. Give the role of food inspector in food analysis.					
	f)						
Q.6	a)	Discuss in detail the applications of HPTLC.	(07)				
	b)	Explain in detail the principle and instrumentation of SFC.	(08)				
Q.7	a)	Write in detail the advantages and limitations of supercritical fluid chromatography.	(07)				
	b)	Discuss in detail the development techniques of HPTLC in detail.	(08)				
Q.8		Write short notes on Any THREE of the following:					
	a)	Selection of adsorbent and solvent in HPTLC					
	b)	Determination of adulterants in milk and milk products					
	c)	Compare between band and spot applications of sample					
	d)	Responsibilities and duties of food safety officer.					
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