F.Y.B.PHARM. SEMESTER-I (2011 COURSE) : SUMMER - 2018 SUBJECT: PHARMACEUTICAL ENGINEERING I

Day: Date:		Ionday 0/04/2018	S-2018-3942 Time: 10.00 AM TO 01.00 PM Max. Marks: 80		М
N.B:	1) 2) 3)	Solve ANY TWO questions from each section from the remaining.			
			SECTION-I		
Q.1		Solve ANY FIVE:			
	a)b)c)d)e)f)	Explain the ter What is turbul What are varia What is applic	gnificance of size reduction in rms cutting and attrition. ent flow? able area flow meters? eation of sieve bend? w for mass transfer.	pharmacy?	
Q.2	a) b)	-	transfer in solids and liquids. s affecting screening.		(10) (05)
Q.3	a) b)	•	ruction and working of hamme noullis experiments application		(08) (07)
Q.4		Write short no	etes on (ANY THREE):		(15)
	a)b)c)d)	Fluid flow thre Interfacial ma Effectiveness Theory of size	of screens		
			SECTION-II		
Q.5		Solve ANY F	IVE:		(10)
	a)b)c)d)e)f)	Give example What is leachi What is hot flo Give two meth		?	
Q.6	a) b)		g? Explain in detail mixing eq ods for extraction of volatile oi	uipments for solid liquid mixing. ls.	(10) (05)
Q.7	a) b)	of membrane		xplain methods for integrity testing extraction.	(08) (07)
Q.8		Write short no	otes on (ANY THREE):		(15)
	a)b)c)d)	HEPA filter Bollman extra Triangular dia Wet scrubbers	gram in extraction		