S.Y.B.PHARM. SEMESTER-IV (2011 COURSE): SUMMER - 2018 SUBJECT: DOSAGE FORM DESIGN – I

Day Date		Wednesday 02/05/2018 Time: 02.00 PM TO 05.00 PM Max. Marks: 80	
N.B.:			
	1)	Q.No.1 and Q.No.5 are COMPULSORY. Out of the remaining questions	
	2)	attempt ANY TWO questions from each section.	
	2) 3)	Answers to both the sections should be written in the SEPARATE answer book	oks.
		Figures to the right indicate FULL marks.	
SECTION – I			
Q.1		Answer ANY FIVE of the following:	10]
	a)	Define solubility. Explain any one method of solubility improvement.	
	b)	Explain the factors which affects the solubility and dissolution rate.	
	c) d)	Give comment on flocculating agents. Write in short about QA and QC.	
	e)	What is importance of partition coefficient in liquid formulation?	
	f)	Explain the role of colouring agents and dyes in preparation.	
Q.2	a)	Define preformulation. Explain the physico-chemical properties of [organization]	08]
	b)		07]
Q.3	a)	Define solution. Explain in detail methods of preparation of solutions.	08]
V. 0	b)		07]
Q.4		Write short note on ANY THREE of the following:	15]
	a)	Stability of suspension	•
	b)	Phase inversion	
	c)	HLB scale	
	d)	CMC	
SECTION – II			
Q.5			10]
	a)	What are different protein structure?	
	b)	Differentiate between multiple and micro-emulsion.	
	c)	Explain dry suspension formulation. Give one example. Write different polymorphic forms of coca butter.	
	d) e)	Explain creaming of an emulsion.	
	f)	Enlist various preservative used in emulsion.	
Q.6	a)		08]
	b)	suppository. Explain role of emulsifying agent.	07]
Q.7	a)	Explain in detail theories of emulsification. [0	08]
ν.,	b)	<u>. </u>	07]
Q.8		·	15]
	a)	·	
	b)	·	
	c) d)	Displacement value Factors affecting emulsion stability	
	u)	i actors affecting emaision stability	

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