## UNIVERSITY OF JAFFNA BACHELOR OF PHARMACY

## SECOND YEAR SECOND SEMESTER EXAMINATION – FEBRUARY 2018 PHACE 2234 PHARMACEUTICS III – PAPER II

Date: 12.03.2018 Time: 02 Hours

## ANSWER ALL EIGHT QUESTIONS

ANS	WER A	ALL EIGHT QUESTIONS		
1.				
	1.1	Explain how crystallinity of solids affect dissolution rate.	(40 Marks)	
	1.2	Describe the different solubilization techniques for poorly soluble drugs.	(60 Marks)	
2.				
	2.1	Define colloidal and coarse dispersions.	(20 Marks)	
	2.2	Listthe different types of colloids.	(15Marks)	
	2.3	Explain the differences among the different types of colloids mention in 2	2.2. (65 Marks)	
3.				
	3.1	Explain the deflocculation and flocculation states of coarse dispersion with the help of DLVO theory. (50 Marks)		
	3.2	Explain the importance of following for the pharmaceutical suspensions.		
		3.2.1 Controlled flocculation	(25 Marks)	
		3.2.2 Structured vehicle of hydrophilic types	(25 Marks)	
4.				
	4.1	Draw the rheogram for different types of rheological systems.	(30 Marks)	
	4.2	Mention the differences among types of rheological systems.	(30 Marks)	
	4.3	Explain the rheological importance of different pharmaceutical formulation	ons.	
			(40 Marks)	

	5.1	Classify surfactants.	(10 Marks)
	5.2	Briefly describe the types of surfactants mentioned in 5.1.	(20Marks)
	5.2	Describe the pharmaceutical application of surfactants.	(70Marks)
6.			
	6.1	List the fundamental properties of powder.	(20 Marks)
	6.2	Explain the	
		6.2.1 factors that contribute to cohesiveness of powders.	(45 Marks)
		6.2.2 pharmaceutical importance of micromerities.	(35 Marks)
7.	Desc	cribe the	
	7.1	pharmaceutical uses of $\beta$ -cyclodextrin.	(40 Marks)
	7.2	limitation of accelerated stability studies.	(60 Marks)
8.	Write	e an account on	
	8.1	photodegradation of drugs.	(40 Marks)
	8.2	structural features of gels.	(60 Marks)

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