

ANSWER ALL EIGHT QUESTIONS

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## UNIVERSITY OF JAFFNA BACHELOR OF PHARMACY

## SECOND YEAR SECOND SEMESTER EXAMINATION - JULY 2015 PHACE 2202 PHARMACEUTICS III - PAPER II

Date: 15.07.2015. Time: 02 Hours

1.			
	1.1	Briefly explain how colloidal particles acquire charges.	(50 Marks)
	1.2	Describe the electrical double layer of colloidal particles.	(50 Marks)
		particles and discounter about the control of particles.	(501111111)
2.			
۷.	2.1	William in a company of the company	(10 M - 1)
	2.1	What is coarse dispersion?	(10 Marks)
	2.2	Differentiate flocculated and deflocculated suspensions.	(30 Marks)
	2.3	Describe	
		2.3.1 the factors causing instability of emulsion.	(30 Marks)
		2.3.2 how the above instabilities of emulsion can be prevented.	(30 Marks)
		2.5.2 now the above histabilities of chitasion can be prevented.	(50 Marks)
2			
3.			(20.17.1.)
	3.1	List the factors that affect the dissolution rate of solids	(20 Marks)
	3.2	Solubility of weak electrolytes is more in the optimum pH.	
		Explain with suitable derivation	(50 Marks)
	3.3	Describe the dissolution of solid based on the Noyes Whitney's	
		Equation	(30 Marks)
		Equation	(50 Marks)
4.			
	4.1	What is thixotropy?	(10 Marks)
	4.2	Describe the mechanism of thixotropy	(30 Marks)
	4.3	Explain the applications of rheology in pharmacy	(60 Marks)

4.5	Explain the applications of meology in pharmacy	(00 Marks)
	C. P.O	
5.1	What is surfactant?	(10 Marks)
5.2	Classify surfactants with examples	(20 Marks)
5.3	Explain the applications of following in pharmacy	
	5.2.1 surfactants	(30 Marks)
	5.2.2 adsorption	(40 Marks)

6.			
	6.1	List the factors responsible for the cohesion of powders?	(30 Marks)
	6.2	Describe how cohesion can be quantified?	(35 Marks)
	6.3	Explain how flow properties of powder can be improved?	(35 Marks)

7.	7.1	Based on the Arrhenius equation how shelf life of	(50 Marks)
		pharmaceuticals could be determined.	
			(20.34-1-)

7.2	Briefly explain the theories of catalysis.	(30 Marks)
7.3	What is the significance of photochemistry in pharmacy	(20 Marks)

5.



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8.

8.1	What is inclusion complex?	(10 Marks)
8.2	List the different types of inclusion complexes.	(20 Marks)
8.3	List the various methods used for the analysis of complexes.	(20 Marks)
8.4	Write a note on cyclodextrin.	(50 Marks)

