

## UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES FIRST YEAR SECOND SEMESTER EXAMINATION IN BPharmHons – 2020 PHACE 1254 PHYSICAL PHARMACEUTICS – PAPER II

Date: 15.08.2022 Time: 03 Hours

## **Answer All Six Questions**

1.		
	1.1 What do you mean by Dissolution of oral solid dosage forms?	(10 Marks)
	<b>1.2</b> Briefly describe the factors that affect the dissolution of solid particles.	(40 Marks)
	1.3 Explain how dissolution test is conducted using dissolution apparatus.	(50 Marks)
2.		
	<b>2.1</b> What is pharmaceutical dispersion?	(10 Marks)
	2.2 List the different types of pharmaceutical dispersions.	(15 Marks)
	2.3 Compare the different types of pharmaceutical dispersions mentioned in 2.2.	(20 Marks)
	2.4 Discuss the electric double layer of colloidal particles.	(55 Marks)
3.		
	3.1 Discuss how suspensions prepared with optimum stability convenient usage.	(45 marks)
	3.2	
	3.2.1 Briefly explain the different instabilities of emulsion.	(30 marks)
	3.2.2 Explain how instabilities of emulsion mentioned in 3.2.1 can be	
	avoided.	(25 Marks)
4.		
	4.1 What are Non-Newtonian systems?	(05 Marks)
	4.2 Classify and describe the types of Non-Newtonian systems with the help of	,
	rheograms.	(70 Marks)
	<b>4.3</b> Briefly explain the pharmaceutical applications of surfactants.	(25 Marks)
5.		
	5.1 Discuss packing arrangements of powder.	(40 Marks)
	<b>5.2</b> Describe the accelerated stability study of drugs.	(60 Marks)
6.	Write an account on the following.	
	<b>6.1</b> Pharmaceutical applications of complexes	(30 Marks)
	<b>6.2</b> Photolysis of drugs	(30 Marks)
	6.3 Micellar colubilization	(40 Marks)

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