## UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES

Allied Health Sciences SECOND YEAR SECOND SEMESTER EXAMINATION IN BPharm(Hons) - 2020 PHACE 2234 PHARMACEUTICS III - PAPER II

Date: 00 08 NOV 2022 Time: 02 Hours

## Answer All Eight Questions.

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1.	<ul><li>1.1. Briefly explain "Biopharmaceutical Classification System".</li><li>1.2. Discuss how following factors affect the dissolution of drugs.</li></ul>	(45 Marks)
	1.2.1. Common ion effect	(20 Marks)
	1.2.2. Surfactants	(35 Marks)
2.		
	2.1. Define and classify colloids.	(25 Marks)
	2.2. Briefly describe the stages of primary and secondary minimums in colloids.	(30 Marks)
	2.3. List the pharmaceutical applications of colloids.	(45 Marks)
3.		(25 Marks)
	3.1. List the desirable properties of oral suspension.	(23 Marks)
	3.2. Write the merits and demerits of following suspensions.	(20 Marks)
	<ul><li>3.2.1. Flocculated suspension</li><li>3.2.2. Deflocculated suspension</li></ul>	(25 Marks)
	3.2.3. List three (03) types of flocculating agents used in suspensions.	(30 Marks)
	Give one example for each type.	(001111111)
	Give one example for each type.	
4.		
7.5	4.1. What is shear thinning system?	(10 Marks)
	4.2. List the types of shear thinning system.	(10 Marks)
	<b>4.3.</b> Differentiate the types of shear thinning systems mentioned in 4.2.	(20 Marks)
	<b>4.4.</b> Briefly explain the mechanisms of shear thinning system mentioned in 4.2.	(60 Marks)
5.	Describe the pharmaceutical applications of	(60 Montes)
	5.1. surfactants	(60 Marks)
	5.2. adsorbents	(40 Marks)
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6.	6.1. Briefly explain the different types of densities of powder.	(40 Marks)
	6.2. Describe the pH partition principle of drug transport.	(60 Marks)
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7.	Discuss the	
, .	7.1. structure and uses of β- cyclodextrins.	(55 Marks)
	7.2. instabilities of emulsion.	(45 Marks)
8.	Write a short account on	
	8.1. packing arrangement of powder.	(60 Marks)
	8.2. photolysis of drugs.	(40 Marks)