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UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF PHARMACY FOUTH YEAR SECOND SEMESTER EXAMINATION — AUGUST 2017 PHAAP 4201 ADVANCED PHARMACEUTICS IV — PAPER H

Date: 16.08.2017 Time: 02 Hours

1.			
	1.1. Explain how following factors that affect the oral absorption of drugs.		
	1.1.1. Gastric emptying time	(40 marks)	
	1.1.2. Liphophilicity	(30 marks)	
	1.2. What is pH partition theory?	(10 marks)	
	 Briefly explain the limitations of pH partition theory. 	(20 marks)	
2.			
2.	2.1. Describe the different types of hair conditioning agents.	(30 marks)	
	2.2. Give the advantages and disadvantages of soaps over surfactants in		
	shampoo formulations.	(20 marks)	
	2.3. List the ingredients of lipstick formulations and their uses.	(30 marks)	
	2.4. Briefly explain the function of fluoride compounds that are used in the		
	dentifrices.	(20 marks)	
3.			
	3.1		
	3.1.1. What is preformulation?	(10 marks)	
	3.1.2. List the application of preformulation studies.	(20 marks)	
	3.2. Briefly explain how hydrolytic decomposition of drugs can be prevented? (30 marks)		
	3.3. Briefly describe the constituents and their importance in the glasses that are used as		
	pharmaceutical packages.	(40 marks)	
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4.			
	4.1. What is pilot plant scale up technique?	(10 marks)	
	 Give the importance of pilot plant scale up techniques. 	(30 marks)	
	4.3. Briefly explain the different steps involved in the pilot plant scale up techniques.		
		(60 marks)	



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5.			
	5.1. Define the following terms.		
	5.1.1. Quality assurance	(10 marks)	
	5.1.2. Quality control	(10 marks)	
	5.1.3. Good manufacturing practice	(10 marks)	
	5.2. List the different functions of quality assurance department in the		
	pharmaceutical industry.	(30 marks)	
	5.3. Briefly describe the good manufacturing practice that are followed	-	
	process control.	(40 marks)	

6. Write an account on

6.1. glutathione conjugation. (40 marks) 6.2. biliary excretion of drugs. (60 marks)