UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF PHARMACY

FOUTH YEAR SECOND SEMESTER EXAMINATION –Apr 2020 PHAAP 4214 ADVANCED PHARMACEUTICS № – PAPER II

Date: 20.07.2020 Time: 02 Hours

Answer All Six Questions

1.	1.1	Define following terms.				
		1.1.1 Relative bioavailability	(10 Marks)			
		1.1.2 Pharmaceutical equivalents	(10 Marks)			
		1.1.3 Single source drug products	(10 Marks)			
	1.2	Explain the				
		1.2.1 formulation strategies that can be used to increase the permeability of drugs.	(40 Marks)			
		1.2.2 effect of gastrointestinal pH on oral absorption of drugs	(30 Marks)			
2.	2.1	What is "Xenobiotics"?	(10 Marks)			
	2.2	List the changes occurring in the property of drug molecules that (15 Marks) undergo phase II reactions.				
	2.3	Briefly describe the	(45 Marks)			
		2.3.1 glucuronic acid conjugation of drugs.	(30 Marks)			
		2.3.2 one compartment pharmacokinetic model.	(30 Marks)			
3.	3.1	List and explain the functions of different formulation additives (60 Marks) that are used in hair conditioners.				
	3.2	Explain how oxidation dyes impart colour to hairs?	(40 Marks)			
4.	4.1	Define "Preformulation".	(10 Marks)			
	4.2	Briefly explain				
		4.2.1 the role of thermal analysis in preformulation studies.	(30 Marks)			
		4.2.2 different methods that are used to enhance the stability of drugs against chemical degrdadation.	(60 Marks)			
5.	5.1	What is pilot plant scale up technique?	(10 Marks)			
	5.2	Discuss the importance of pilot plant scale up technique in the formulation development.				
	5.3	Describe the different factors that affect the quality of drugs that store in the plastic containers.	(60 Marks)			

6.	6.1	Define	(10 Marks)			
	6.2	List th	ne advantages of conducting pharmaceutical validation.	(25 Marks)		
	6.3	Write an account on				
		6.3.1	stress testing of drugs.	(35 Marks)		
		6.3.2	salivary excretion of drugs.	(30 Marks)		