UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF PHARMACY

FOURTH YEAR SECOND SEMESTER EXAMINATION APR 2020 PHADD 4223 DRUG DISCOVERY AND DEVELOPMENT

Date: 22.07.2020

Time: 03 Hours MEDIC

Answer All Questions

1.			
	1.1	List five (05) in silico methods used in drug discovery process.	(10 marks)
	1.2	Briefly explain four (04) of the in-silico methods mentioned in 1.1	(40 marks)
	1.3	Discuss on "High-through put screening".	(50 marks)
2.			
۷.	2.1	List the factors that are considered when performing	
	2.1	cell-based assay.	(20 marks)
	2.2	Give five (05) examples for benchtop assays with their indications	Maria Maria
	2.3	List and explain <i>in-vitro</i> toxicological studies used in drug	
		development process.	(60 marks)
3.	- 12 2		(10 1)
	3.1	List five (05) local toxicity studies induced by drugs.	(10 marks)
	3.2	List four (04) main drug safety activities that are executed in the	(20 mortes)
	3.3	various stages of the drug discovery process.	(20 marks)
	3.3	3.3.1 Explain clinical signs of toxicity observed in animal	
		testing.	(20 marks)
		3.3.2 Discuss pros and cons of animal testing in drug discovery.	
		5.5.2 Bisoubs pros and coins of animal vesting in and answers	(
4.			
	4.1	Define "Orphan drug".	(10 marks)
	4.2	Explain how pharmaceutical companies can be encouraged for	
		drug discovery of orphan disease?	(30 marks)
	4.3	Explain the levels in target selection in a pharmaceutical	
		company.	(60 marks)
5.			
٥.	5.1	Explain the steps to be followed before conducting clinical trial.	(40 marks)
	5.2	Describe the stages in phase 1 clinical trial.	(60 marks)
6.			
	6.1	Define "Druggable targets".	(10 marks)
	6.2	Explain genetic approach in target validation.	(30 marks)
	6.3	Briefly describe the steps involved in drug development after	
		validating the target.	(60 marks)