UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES SECOND YEAR FIRST SEMESTER EXAMINATION IN BPharmHons-2020 PHAPM 2144 PHARMACEUTICAL MICROBIOLOGY

Date: 15.06.2022 Time: 03 hours

ANSWER ALL SIX QUESTIONS

1.			
•	1.1.	1.1.1. Name two (02) Gram positive and Gram negative bacteria.1.1.2. List the main difference between the Gram positive and Gram	(05Marks)
		negative bacteria.	(05 Marks)
	1.2.	Describe the phases of the bacterial growth curve.	(20 Marks)
	1.3.	Explain the mechanisms of initiating a bacterial infection.	(40 Marks)
	1.4.	Name two groups of antibiotics and state their mechanism of action.	(10 Marks)
	1.5.	Briefly describe the agar disc diffusion test.	(20 Marks)
2.			
	2.1.	Define the term "Vaccine".	(10 Marks)
	2.2.	List the two types vaccines with an example to each.	(10 Marks)
	2.3.	Write down the factors influence the immune response of	
		vaccination.	(20 Marks)
	2.4.	Explain herd immunity in terms of COVID-19 vaccination.	(20 Marks)
	2.5.	Discuss on type I hypersensitivity reactions to COVID-19 Vaccines.	(40 Marks)
3.			
	3.1.	Define	(05 N (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
		3.1.1.sterilization.	(05 Marks)
		3.1.2.sterility test.	(05 Marks)
	3.2.	Explain briefly on performing growth promotion test in the above	(20 Marks)
	2.2	mentioned medias (3.3) before sterility testing.	(10 Marks)
	3.3.	List the commonly used culture media in sterility test.	(30 Marks)
	3.4.	Discuss the moist heat sterilization by autoclave. Describe the sterility validation in pharmaceuticals by membrane	(30 1414113)
	3.5.	filtration method.	(30 Marks)
		mutation method.	(
4.		Write an account on	
	4.1.	superficial mycoses.	(25 Marks)
	4.2.		(25 Marks)
	4.3.	innate immunity.	(25 Marks)
	4.4.	rabbit pyrogen test.	(25 Marks)
_		Briefly describe the mode of transmission, prevention, and control	
5.		of the following parasitic diseases	
	5.1	Malaria	(50Marks)
	5.2.	Ameobiasis	(50Marks)
	5.4.	AHICUUIASIS	(001.20110)

Allier Health Sciences

6

6.1.	List the parasitic nematodes which can cause infections in human	
	intestinal system.	(30 Marks)
6.2.	Briefly outline the major clinical consequences of the parasitic	
	infections which you have mentioned in 6.1.	(40 Marks)
6.3.	Describe the prevention and control of the above mentioned parasites	
	in 6.1.	(30 Marks)