

UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES

FOURTH YEAR SECOND SEMESTER EXAMINATION IN BScHons(MLS)- 2021 MLSBM 4233 BIOTECHNOLOGY AND MOLECULARBIOLOGY II

Date: 24.07.2023 Time: 1 Hour

ANSWER ALL FOUR QUESTIONS.

4.

1.	SWER ALL FOUR QUESTIONS.		
	1.1. Give the indications for Cytogenetic Testing.	(30 marks)	
	1.2. List the properties of probes used in Fluorescence In Situ Hybridization (FISH).		
		(20 marks)	
	1.3. Briefly describe the advantages of Fluorescence In Situ Hybridization		
	over the Conventional Cytogenetic Testing.	(50 marks)	
2.			
	2.1. Write notes on Limitations of gene therapy	(50 marks)	
	2.2 Differentiate adherent cell cultures with that of suspension cell cultures.(50 m		
3.			
	3.1 Explain the term Polymerase Chain Reaction.	(25 Marks)	

5.		
	3.1 Explain the term Polymerase Chain Reaction.	(25 Marks)
	3.2 List the components of a reaction mastermix for a PCR and mention	
	the importance of each.	(25 Marks)
	3.3 Compare the conventional PCR method with that of RealTime PCR.	(50 Marks)

4.1 Explain the term "acrocentric chromosome" with exa	amples. (15 Marks)
4.2 Mention the factors measured in the "triple test".	(15 Marks)
4.3 Write notes on deletion in a chromosome.	(40 Marks)
4.4 Write notes on single gene disorders.	(30 Marks)