UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES SECOND YEAR SECOND SEMESTER EXAMINATION – MARCH 2019

MLSIM2225 IMMUNOLOGY

PAPER II

Date: 13.03.2019 Time: 2 hours

ANSWER ALL SIX QUESTIONS.

1			
١.	1.1.Name two (2) primary lymphatic organs.	(10 marks)	
	1.2.List five (5) differences between T lymphocytes and B lymphocytes.	(20 marks)	
	1.3.Briefly explain the role of macrophages in immune response.	(30 marks)	
	1.4.Describe the mechanism of B lymphocyte activation.	(40 marks)	
2.			
	2.1. What is meant by Major histocompatibility Complex?	(20 Marks)	
	2.2. Mention the clinical importance of Major Compatibility Complex.	(20 Marks)	
	2.3.Briefly explain the different types of tissue transplantation.	(30 Marks)	
	2.4 Write notes on the biological importance of complements	(30 Marks)	
3.			
	3.1.		
	3.1.1. Mention three different types of antibody mediated hypersens	sitivity	
	reactions.	(10 Marks)	
	3.1.2. Briefly describe the mechanism and diagnosis of cell mediate	d	
	hypersensitivity reaction.	(30 Marks)	
	3.2.Briefly explain the pathogenesis and laboratory diagnosis of the following	2.Briefly explain the pathogenesis and laboratory diagnosis of the following	
	autoimmune disorders.		
	3.2.1. Graves' disease	(30 marks)	
	3.2.2. Rheumatoid arthritis	(30 marks)	

4.	Write notes on	
	4.1. Innate immunity	(30 marks)
	4.2. Monoclonal antibodies	(40 marks)
	4.3.Live attenuated vaccines	(30 marks)
5.	Briefly describe the following laboratory tests	
	5.1.Direct Immunofluorescence assay	(50 marks)
	5.2. Agglutination techniques	(50 marks)
6.		
	6.1. List four types of ELISA technique.	(10 marks)
	6.2. Describe each type of ELISA technique you mentioned in 6.1 with	
	suitable diagrams.	(60 marks)
	6.3 Briefly describe the uses of ELISA technique in a clinical laboratory.	(30 marks)