

UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES SECOND YEAR FIRST SEMESTER EXAMINATION IN BSchons (MLS) – 2023 MLSIM 2144 IMMUNOLOGY

Date: 03.12.2024 Time: 2 Hours

ANSWER ALL SIX QUESTIONS

1.		
	1.1.List two (02) primary lymphoid organs and two (02) secondary lymphatic	
	organs of immune system.	(10 marks)
	1.2.Compare and contrast T and B lymphocytes.	(30 marks)
	1.3. Briefly describe the mechanism of T cell activation.	(30 marks)
	1.4.Explain the role of natural killer cells in innate immunity.	(30 marks)
2.		
	2.1 Outline the classification of immunoglobulin and their functions.	(30 marks)
	2.2. Describe the basic structure of immunoglobulin with a diagram.	(40 Marks)
	2.3. Briefly describe the factors that could influence the immunogenicity of the	
	antigens.	(30 marks)
3.	Write short notes on,	
	3.1. HLA typing	(30 marks)
	3.2. Pathophysiology of type 1 hypersensitivity reactions	(40 marks)
	3.3. Biological importance of complements	(30 marks)
4.	Briefly describe the principle and the clinical applications of the following tests	
	4.1.Sandwich ELISA	(30 marks)
	4.2.Latex agglutination test	(30 marks)
	4.3.Immunofluorescence test	(40 marks)



5.

5.1.Define "Monoclonal antibodies"

(15 marks)

5.2.Describe the steps involved in the production of monoclonal antibody

(50 marks)

5.3.Discuss the applications of monoclonal antibodies in clinical laboratory diagnosis

(35 marks)

6.

6.1.List five (05) autoimmune diseases

(20 marks)

6.2. Explain the immunological mechanism of any two diseases mentioned 6.1.

(40 marks)

6.3.Briefly describe the laboratory tests involved in the diagnosis of the diseases mentioned in 6.2. (30 m

(30 marks)