

UNIVERSITY OF JAFFNA, SRI LANKA  
FACULTY OF ALLIED HEALTH SCIENCES  
SECOND YEAR SECOND SEMESTER EXAMINATION IN BSc HONS (MLS)- 2019  
MLSIM 2225 IMMUNOLOGY  
PAPER II

Date: 27.01.2022

Time: 2 Hours

**ANSWER ALL SIX QUESTIONS.**

1.

- 1.1 Name two (2) primary lymphoid organs. (10 marks)
- 1.2 Briefly explain the role of phagocytosis mechanism in immune response (20 marks)
- 1.3 List five (5) differences between T cells and B cells (20 marks)
- 1.4 List different classes of immunoglobulin and briefly describe the properties and functions of each of them (50 marks)

2.

- 2.1 Define the term 'Hypersensitivity' (10 marks)
- 2.2 Outline the clinical manifestations of Type II Hypersensitivity (25 marks)
- 2.3 Briefly describe the laboratory diagnosis of Type II hypersensitivity (40 marks)
- 2.4 Briefly describe the mechanism Type III hypersensitivity (25 marks)

3. Write short notes on

- 3.1 Adaptive immunity (40 marks)
- 3.2 Monoclonal antibody production (30 marks)
- 3.3 Pro zone and Post zone effect (30 marks)

- 4.
- 4.1 Define the term 'Auto Immune Disease' (10 marks)
- 4.2 Outline the immuopathology of Systemic Lupus Erythematosus (30 marks)
- 4.3 List the diagnostic criteria of Systemic Lupus Erythematosus (30 marks)
- 4.4 Briefly discuss the laboratory diagnosis of Goodpasture's syndrome (30 marks)
- 5.
- 5.1 Briefly describe the principle of the following laboratory tests
- 5.1.1 Immuno-electrophoresis (20 marks)
- 5.1.2 Agglutination reaction (20 marks)
- 5.2 Define the term 'Hook effect' (10 marks)
- 5.3 Briefly discuss the different types of Graft rejection (40 marks)
- 5.4 List two (02) laboratory tests included in clinical histocompatibility testing (10 marks)
- 6.
- 6.1 Name five different types of ELISA technique (10 marks)
- 6.2 Briefly describe each type you mentioned in 6.1. (60 marks)
- 6.3 Write notes on Direct immunofluorescence technique (30 marks)