

**UNIVERSITY OF JAFFNA, SRI LANKA**  
**FACULTY OF ALLIED HEALTH SCIENCES**  
**SECOND YEAR FIRST SEMESTER EXAMINATION IN BScHons (MLS)-2022**  
**MLSIM2144 IMMUNOLOGY**

**PAPER II**

**Date: 20.12.2023**

**Time: 2 hours**

**ANSWER ALL SIX QUESTIONS.**

**1.**

1.1 List four types of cells which play major role in innate immunity **(10 Marks)**

1.2 Compare and contrast the functions of each type of cells mentioned in 1.1 **(60 Marks)**

1.3 Briefly describe on active acquired immunity **(30 Marks)**

**2. Explain the principle, advantages and disadvantages of the following methods**

2.1 Immunochromatography **(35 Marks)**

2.2 Sandwich ELISA **(35 Marks)**

2.3 Radio Immunoassay **(30 Marks)**

**3.**

3.1 Describe the steps involved in monoclonal antibody production by hybridoma technology **(60 Marks)**

3.2 Briefly describe the clinical applications of monoclonal antibodies **(40 Marks)**

**4. Briefly describe the principle, procedure and the clinical applications of the following tests.**

4.1 Immunofluorescence tests **(35 Marks)**

4.2 Immunoelectrophoresis **(30 Marks)**

4.3 Indirect Coombs tests **(35 Marks)**

5. Write notes on the following

5.1 Passive acquired immunity

**(30 Marks)**

5.2 Antibody avidity

**(35 Marks)**

5.3 Type I Hypersensitivity

**(35 Marks)**

6. Write short notes on

6.1 Systemic Lupus Erythematosus (SLE)

**(40 Marks)**

6.2 Acute Phase proteins

**(30 Marks)**

6.3 Complements

**(30 Marks)**