



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
SECOND YEAR FIRST SEMESTER EXAMINATION IN BScHons (MLS)-2021
MLSIM 2144 IMMUNOLOGY

Date: 07.03.2023

Time: 2 hours

ANSWER ALL SIX QUESTIONS

1.
 - 1.1 List the different classes of immunoglobulin (10 Marks)
 - 1.2 Briefly describe each class of immunoglobulin mentioned in 1.1 (50 Marks)
 - 1.3 Define the term monoclonal antibodies (10 Marks)
 - 1.4 Briefly describe the steps used in the production of monoclonal antibodies (30 Marks)

2. Write short notes on,
 - 2.1 Active acquired immunity (30 Marks)
 - 2.2 Role of phagocytosis in immune response (40 Marks)
 - 2.3 Role of T helper cells in adaptive immune mechanism (30 Marks)

3.
 - 3.1 Name the types of ELISA technique (15 Marks)
 - 3.2 Describe each type of ELISA with suitable diagrams (60 Marks)
 - 3.3 Mention the uses of ELISA technique (25 Marks)

4.
 - 4.1 State the principle of
 - 4.1.1 Direct Coomb's test (20 Marks)
 - 4.1.2 Indirect Coomb's test (20 Marks)
 - 4.2 Discuss the applications of direct and indirect Coomb's tests (30 Marks)
 - 4.3 Write notes on Western blot technique (30 Marks)

5. Write briefly on
 - 5.1 Type IV hypersensitivity (50 Marks)
 - 5.2 Systemic Lupus Erythematous (50 Marks)

6.
 - 6.1 State the principle of immunofluorescence (20 Marks)
 - 6.2 Describe the two types of immunofluorescence technique (50 Marks)
 - 6.3 Briefly write the use of immunofluorescence technique in a clinical laboratory (30 Marks)