

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
SECOND YEAR SECOND SEMESTER EXAMINATION- FEBRUARY 2014
MLSIM 2202 IMMUNOLOGY

PART II

Date: 28.02.2014

Time: 2 hours

ANSWER ALL SIX QUESTIONS

1.

- 1.1. Define Agglutination (10 Marks)
- 1.2. Briefly explain the phases of agglutination (20 Marks)
- 1.3. Describe the different types of agglutination with examples (50 Marks)
- 1.4. Write a note on grading of agglutination reaction (20 Marks)

2.

- 2.1. Describe how T lymphocytes are activated by exogenous antigens (40 Marks)
- 2.2. List the non specific defence mechanisms present in the gastrointestinal tract (30 Marks)
- 2.3. Describe the role of macrophages in immunity (30marks)

3. Briefly describe the following

- 3.1. Counter current Immuno-electrophoresis (30 Marks)
- 3.2. VDRL Slide test (30 Marks)
- 3.3. Direct and Indirect Immunofluorescence assay (40 Marks)

4.

4.1. Briefly explain the classical pathway of complement component (30 Marks)

4.2. Describe the principle of complement fixation test (30 Marks)

4.3. Mention the steps involved and the reagents used, in the complement fixation test
(40 Marks)

5.

5.1. Define Immunization (10 Marks)

5.2. Describe the factors that influence the immune response to vaccination
(40 Marks)

5.3. Briefly describe the different types of vaccine with examples (50 Marks)

6. Write short notes on

6.1. Radioimmunoassay (40 Marks)

6.2. Competitive ELISA (30 Marks)

6.3. Homogenous immunoassay (30 Marks)