



UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
SECOND YEAR SECOND SEMESTER EXAMINATION – FEBRUARY 2017

MLSIM 2224 IMMUNOLOGY

PAPER II

Date: 08.02.2017

Time: 2 hours

ANSWER ALL SIX QUESTIONS.

1.

- 1.1 Name the different types of ELISA used for microbiological diagnosis (10 Marks)
- 1.2 Describe the principle and the procedure of each type you mentioned in 1.1. (60 Marks)
- 1.3 Briefly describe the advantages of ELISA in microbiological diagnosis (30 Marks)

2.

- 2.1 Describe the principle and the procedure of direct and indirect Immunofluorescence assay. (70 Marks)
- 2.2 Write on the uses of Immunofluorescence assay in the clinical laboratory (30 Marks)

3.

- 3.1 Describe different types of precipitation techniques (70 Marks)
- 3.2 Briefly describe the uses of each precipitation technique mentioned in 3.1. (30 Marks)

4. Write short notes on

- 4.1 Type IV hypersensitivity **(40 Marks)**
- 4.2 Killed vaccines **(30 Marks)**
- 4.3 Complements **(30 Marks)**

5. Briefly describe the following laboratory tests

- 5.1 Passive agglutination test **(40 Marks)**
- 5.2 Western Blot **(30 Marks)**
- 5.3 VDRL **(30 Marks)**

6.

- 6.1 Define the term "Autoimmune diseases" **(20 Marks)**
- 6.2 List five auto immune diseases **(20 Marks)**
- 6.3 Briefly describe the immunological tests used in the diagnosis of the above diseases **(60 Marks)**

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