



**RAJARATA UNIVERSITY OF SRI LANKA  
FACULTY OF APPLIED SCIENCES, MIHINTALE.**

**B.Sc. (Special) Degree in Applied Sciences**

**Fourth Year – Semester I Examination – October/November 2015**

**MIB 4209 IMMUNOLOGY**

**Time: Two (2) hours**

**Answer all four (4) questions**

**Use labeled diagrams where appropriate**

**1) Write short notes on;**

- a. lymphocytes and their characteristic markers
  - b. etiology of autoimmune diseases
  - c. anaphylatoxins of complement system
  - d. non-competitive RIA
- (25X 4 Marks)**

**2) a. Illustrate the process of antigen recognition by T cells. (30 Marks)**

**b. Differentiate MHC class I from MHC class II. (40 Marks)**

**c. Justify the need for the complement system. (30 Marks)**

**3) a. Explain the recognition of microbial non-self by the innate immunity. (30 Marks)**

**b. Describe how microbes evade innate immunity. (40 marks)**

**c. Compare and contrast innate immunity with active immunity. (30 Marks)**

**4) a. Justify the need to create Ig diversity and the mechanisms responsible for it. (50 Marks)**

**b. Compare and contrast different Ig classes. (50 Marks)**