

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES

B.Sc. (Special) Degree in Applied Biology

Third Year - Semester II Examination - April/May 2016

MIB 4209 IMMUNOLOGY

Time: Two (2) hours

Answer all four (4) questions Use labeled diagrams where appropriate

- 1) Write short notes on;
 - a. receptors and responses of phagocytes in innate immunity
 - b. DNA rearrangement of immunoglobulin genes
 - c. possible causes of autoimmune diseases and potential treatment
- d. prozone effect (25X 4 marks) 2) a. Explain the general structure of T cell receptor complex. (30 marks) b. State the role of CD 28. (30 marks) c. Justify the need for variability in both MHC and TCR. (40 marks) 3) a. Explain how the host cells avoid the membrane attack complex. (30 marks) b. List the C3 convertases in complement pathways and indicate their importance. (30 marks) c. Analyze the role of the complement system in immunity. (40 marks) 4) a. Relate general structure of antibodies to their functions. (35 marks)
 - c. Discuss the advantages of clinical application of radioimmunoassay technique.

b. With the aid of labeled diagrams illustrate IgA secretion and transcytosis.

(30 marks)

(35 marks)