RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. (Special) Degree in Applied Biology
Fourth Year – Semester I Examination – October/ November 2017

MIB 4209 IMMUNOLOGY

Time: Two (02) hours

Answer ALL questions

1. a) Explain the role of AIRE transcription factor in T cell maturation and autoimmunity. **(30 marks)**

   b) Describe the steps of antigen presentation to cytotoxic T cells. **(30 marks)**

   c) Elucidate the T cell training procedure in the thymus. **(40 marks)**

2. a) Illustrate the B cell receptor and its biological functions. **(30 marks)**

   b) Describe the treatments for type 1 hypersensitivity reactions. **(30 marks)**

   c) Explain the role of antibody in hypersensitivity reactions. **(40 marks)**

3. a) Differentiate T cell anergy from normal response. **(30 marks)**

   b) Describe the microbial mechanisms that induce autoimmunity. **(30 marks)**

   c) Explain the immunological approaches in cancer therapy. **(40 marks)**

4. a) Explain the consequences of a person with B type blood donating blood to a recipient of A type blood. **(30 marks)**

   b) State the steps for an immunological method to detect the papaya rings spot virus. **(30 marks)**

   c) Describe the importance of inflammatory reactions in a wound. **(40 marks)**

END