



**RAJARATA UNIVERSITY OF SRI LANKA  
FACULTY OF APPLIED SCIENCES**

**B.Sc. Honours in Applied Biology**

**Third Year – Semester II Examination – July 2020**

**MIB 3207 – IMMUNOLOGY**

**Time: Two (02) hours**

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**Answer ALL questions.**

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1. a) Discuss why B lymphocyte responses are particularly effective against extracellular pathogens rather than intracellular pathogens. **(60 marks)**  
b) Also, explain how B lymphocyte responses might help protect against intracellular pathogens. **(40 marks)**
  2. a) Describe the role of neutrophils during a typical bacterial infection. **(60 marks)**  
b) Explain how participation of adaptive immunity in clearing the pathogen, affects neutrophil activity. **(40 marks)**
  3. Do vaccinations have the potential to cause autoimmune diseases in certain individuals? Justify your answer using your knowledge of clinical immunology. **(100 marks)**
  4. In considering hypothetical deficiencies of the immune system, why would you expect pattern recognition receptor (PRR) deficiency to have severe consequences despite having an intact adaptive immunity? **(100 marks)**
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