



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

B.Sc. (Special) Degree in Applied Biology

Fourth Year Semester I Examination– September/October 2019

MIB 4302 – MEDICAL MICROBIOLOGY

Time: Three (03) hours

Answer ALL questions.

1. Explain the role of Koch's postulates in the field of medical microbiology and what limitations it has in the present day. **(100 marks)**
2. Describe using examples determinants of bacterial pathogenesis. **(100 marks)**
3. A tourist returning to his country after travelling in sub-Saharan Africa was observed with fever, headache, stiff neck and increased levels of neutrophils in spinal fluid. State the most likely condition the individual is suffering from and how it may be diagnosed definitively through laboratory tests. **(100 marks)**
4. Describe the types of anthrax in humans. **(100 marks)**
5. Provide an overview of the clinical symptoms and the pathogenesis of tetanus. **(100 marks)**
6. Using examples discuss the role and importance of human microbiota in health and wellbeing. **(100 marks)**

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