



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

**B.Sc. (Special) Degree in Applied Biology
Third Year – Semester I Examination – September/ October 2019**

MIB 3202 – SOIL MICROBIOLOGY

Time: Two (02) hours

Answer ALL questions.

1. Discuss the disadvantages of plate count technique and direct observation techniques in studying soil microorganisms. **(100 marks)**
2. Discuss the characteristics of a microorganism that would decide its fate after being introduced to a soil which has been already colonized with microorganisms. **(100 marks)**
3. Describe the relationship between soil environment and distribution of soil microorganisms. **(100 marks)**
4. a) State what disease suppressive and disease permissive soils are. **(20 marks)**
b) Explain a possible mechanism of developing disease suppressiveness in a disease permissive agricultural soil gradually with time. **(80 marks)**

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