



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

**B.Sc. (Special) Degree in Applied Biology
Fourth Year – Semester I Examination – January/ February 2021**

MIB 4201- APPLIED MYCOLOGY

Time: Two (02) hours

Answer ALL questions.

1. a) Discuss briefly the role of arbuscular mycorrhizal fungi (AMF) in heavy metal absorbance by plants. **(50 marks)**
b) "Mycotoxins can cause a variety of adverse health effects on both humans and livestock." Evaluate this statement. **(50 marks)**
2. a) Discuss briefly the mechanism of strigolactones synthesis. **(50 marks)**
b) Explain how strigolactones affect host plant and arbuscular mycorrhizal symbiosis. **(50 marks)**
3. Describe the principles and practice of fungal growth control through the management of environmental, biological factors and chemical control methods. **(100 marks)**
4. Evaluate the nature of lichen symbiosis with reference to different photobiont and mycobiont partners in lichens. **(100 marks)**

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