



RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

Bachelor of Science Honors in Microbiology

Fourth Year – Semester I Examination – July/August 2023

MIB 4201 – APPLIED MYCOLOGY

Time: Two (02) hour

Answer ALL questions

1. a) Describe briefly the principles and practice of fungal growth control through the management of environmental, biological and chemical methods. **(50 marks)**
b) “Mycotoxins can cause a variety of adverse health effects and pose a serious health threat to both humans and livestock”: Critically evaluate this statement. **(50 marks)**
2. Critically evaluate the use of arbuscular mycorrhizal fungi in sustainable agricultural practices. **(100 marks)**
3. a) Discuss briefly the role of arbuscular mycorrhizal fungi (AMF) in heavy metal absorption of plants. **(60 marks)**
b) Explain why strigolactones play a crucial role in establishing and maintaining mycorrhizal associations. **(40 marks)**
4. Write short notes on following.
a) Morphological characterization of lichens. **(50 marks)**
b) Principles of controlling fungal pathogens. **(50 marks)**

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