



**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 4201- APPLIED MYCOLOGY**

**Time: Two (02) hours**

**Answer ALL questions.**

1. A growing concern for the potential food shortage for the world's expanding population has led to the exploitation of edible mushroom production in rural livelihoods of Sri Lanka. What is your argument on this? **(100 marks)**
  
2. a) Discuss briefly the role of arbuscular mycorrhizal fungi (AMF) in heavy metal absorbance by plants in cadmium (Cd) contaminated soil. **(50 marks)**  
 b) "Biological control using entomopathogenic fungi is promising an alternative to chemical control against the lepidopterous pests". Analyze this statement. **(50 marks)**
  
3. a) Giving examples, explain how fungi are used in plant and human disease control. **(50 marks)**  
 b) "Mycotoxins can cause a variety of adverse health effects on both humans and livestock". Critically evaluate this statement. **(50 marks)**
  
4. Write short notes on
  - a) biological activities of lichen secondary metabolites. **(50 marks)**
  - b) principles of controlling fungal pathogens. **(50 marks)**

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