

## RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES

B.Sc. (Special) Degree in Applied Sciences Fourth Year – Semester I Examination – June/July 2018

## MIB 4201- APPLIED MYCOLOGY & MUSHROOM TECHNOLOGY

Time: Two (02) hou	
A	nswer ALL questions
1.	a) Liphang have been
1.	y = 100 miles and 100 for evaluating air quality. Design an
	experimental methodology to determine whether or not different lichen species can be used as indicators of air quality.
	(50 marks)
	b) "Lichens are two lives in one." Critically evaluate this statement using examples of recent scientific findings of lichen partners.
	(50 marks)
2.	a) Describe the principles and practices of fungal growth control through the management of environmental, biological and chemical control methods.
	(50 marks)
	b) Evaluate the role of arbuscular mycorrhizal fungi in sequestering heavy metals from the contaminated soil.
	(50 marks)
3.	a) Compare and contract the affectiveness of root and their contract the affectiveness of the root and the roo
	a) Compare and contrast the effectiveness of root endophytic fungal biofertilizers to improve soil health and productivity over synthetic fertilizers.
	(50 marks)
	b) Discuss briefly the mechanism of synthesis of strigolactones and its activity, which
	induces host plant and arbuscular mycorrhizal symbiosis

4. Explain how the cultivation of mushrooms can alleviate hunger and poverty in resource poor farmers in Sri Lanka.

(100 marks)

(50 marks)

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