QUESTION ONE

“This paper postulates that an ant-hemipteran mutualism provides centres of concentrated production of L. lecanii and thus contributes to an elevated level of control over H. vastatrix.”

Discuss how this hypothesis was evaluated and the findings from this research.

[25]

QUESTION TWO

The mechanisms employed by biocontrol agents to effect biological control of plant diseases are many and complex. In the selected research papers highlighted in this article, show what has been learned about mechanisms involved in biocontrol with Trichoderma species.

[25]

QUESTION THREE
Discuss this paper’s view on how it is possible to produce enough food for the world’s population in 2050.

(12)


“There has been a significant increase in the establishment of forestry plantations in Indonesia over the last decade. The future success of these monocultures will be dependant on future breeding programmes that, not only select for yield and form, but more importantly a high level of resistance to pests and diseases.”

Discuss some of the potential diseases capable of causing significant losses to Eucalyptus plantations as outlined in this paper.

(13)

QUESTION FOUR


After completing your degree, imagine that you have been appointed as a lecturer in Plant Pathology. During the December holidays, the discipline plans to run a series of lectures and practicals on the role of systemic acquired resistance in plant disease control.

Based on this paper prepare a lecture on how pathogen elicitors can be used to induce the natural defense system of a plant.

[25]
QUESTION FIVE


Discuss the use of the good agricultural practices described in this paper, for minimizing the risk of feed contamination by mycotoxins.

[25]