BINDURA UNIVERSITY OF SCIENCE EDUCATION

FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGC421

Department of Crop Science BSc Agricultural Science (Honours) Part IV Examination Biology and Management of Insect Pests

3 HOURS (100 Marks)

INSTRUCTIONS



Answer any FOUR questions. Each question earries 25 marks.

1. (a) With the aid of examples, distinguish between primary and secondary pests.

[5 marks]

- (b) Pests do not recognize borders. Discuss how the spread of stored products pests can be minimized. [20 marks]
- 2. Giving examples, discuss the use of cultural control method in the management of insect pests. [25 marks]
- 3. Biological control is one of the methods used in insect pest management.
 - (a) Outline the advantages and disadvantages of biocontrol.

[7 marks]

(b) Explain the three approaches to biological control as an active pest management tactic.

[9 marks]

- (c) Giving examples, discuss the use of any three natural enemies in biological control of insect pests. [9 marks]
- 4. Discuss how insects attain pest status.

[25 marks]

- 5. (a) Giving examples, define the following terms as used in insect pest management:
 - (i) indirect pests
 - (ii) oligophagous pests.
 - (iii) economic injury level

[8 marks]

(iv) economic threshold
(b) Giving examples, outline the limitations of the economic injury level concept.

[6 marks]

(c) Explain why it is important to define a pest's plant host range?

[6 marks]

(d) Explain why integrated pest management is mostly recommended.

[5 marks]

6. Discuss the concept of legislative insect pest management, giving examples.

[25 marks]

End of paper

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