

GWANDA STATE UNIVERSITY



FACULTY OF LIFE SCIENCES

DEPARTMENT OF CROP SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN CROP SCIENCE

CROP PROTECTION AND WEED CONTROL

LCS 2107

First Semester Final main Examination Paper

JANUARY 2021

This examination paper consists of 3 pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: A. Banda

INSTRUCTIONS

1. Answer **all** questions in Section A
2. Answer **only two** questions in Section B

MARK ALLOCATION

QUESTION	MARKS
SECTION A	60
SECTION B	40
TOTAL ATTAINABLE MARKS	100

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Section A: Answer all questions

Question 1

- a. Name two methods of classifying insects by the way they feed on plants 2 marks
- b. Plants may be resistant to insects due to the following factors!
- (i) Mechanical which includes?
4 marks
- (ii) Chemical which includes?
4 marks
- c. Name and discuss two (2) behaviour modifying compounds that are commonly used insect pest control.
10 marks

Question 2

- a. Define roguing
2 marks
- b. How is this practice carried out in a field of infected crops? 8 marks
- c. Discuss the impacts of development of disease in the natural/ wild plant ecosystem. Include diagrams to illustrate your answer
10 marks

Question 3

Discuss the various stages in a generalized plant pathogens life cycle 20 marks

Section B: Answer only TWO questions

Question 4

- a. Define fungi
2 marks
- b. Name any 8 common measure of controlling fungal diseases of plants 8 marks
- c. Describe the TWO (2) types of resistance to fungicides, including diagrams to illustrate your answer
10 marks

Question 5

- a. Name 5 synthetic pesticides used in Zimbabwe
5 marks
- b. From what you have learnt about Integrated Pest Management describe 5 common sense principles of IPM.
15 marks

Question 6

Using illustrations

- (i) Summarize the concept of weed persistence
5 marks
- (ii) Discuss the concept of weed competition
15 marks

END OF QUESTION PAPER

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