



2ND SEMESTER 2007/2008

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMMES: BACHELOR OF SCIENCE IN AGRONOMY, YEAR 4
BACHELOR OF SCIENCE IN HORTICULTURE, YEAR 4**

COURSE CODE: CP 406

TITLE OF PAPER: WEED MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTION: ANSWER A TOTAL OF FOUR [4] QUESTIONS. ALL
QUESTIONS CARRY EQUAL MARKS.**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED
BY THE INVIGILATOR.**

INSTRUCTIONS: ANSWER ANY FOUR [4] QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

QUESTION 1

- a. Explain what a weed is, in three different ways. (3 x 2 marks = 6)
- b. What are parasitic weeds? (3 marks)
- c. Give the scientific and common names of two parasitic weeds found in Swaziland. . (2 x 2 marks = 4 marks)
- d. Why are parasitic weeds such difficult problems to manage? (4 marks)
- e. Explain in detail an effective way to control a named parasitic weed. (8 marks).

[Total marks for Question 1 = 25 marks]

QUESTION 2

- a. Discuss 10 harmful effects of weeds, and give specific examples in each case. (20 marks)
- b. Discuss five beneficial aspects of weeds, citing specific examples. (5 marks)

[Total marks for Question 2 = 25 marks]

QUESTION 3

- a. What is “weed ecology”? (4 marks)
- b. Draw a simple diagram to show the weed-crop ecosystem (4 marks)
- c. Discuss three parameters that usually involves competition in a crop field (3 x 3 = 9 marks)
- d. Explain the most appropriate description of the relationship between crop yields and weed density. (8 marks)

[Total marks for Question 3 = 25 marks]

INSTRUCTIONS: ANSWER ANY FOUR [4] QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

QUESTION 4

- a. Discuss four weed control methods. (4 x 4 = 16 marks)
- b. For each method discussed above, state one advantage of the method. (4 x 1 mark each = 4 marks)
- c. For each method discussed above, state one disadvantage. (4 x 1 mark each = 4 marks)
- d. What is the scientific name of the most troublesome weed on Luyengo campus farm? (1 mark)

[Total marks for Question 4 = 25 marks]

QUESTION 5

- a. What is 'allelopathy'? (4 marks)
- b. Give three specific examples of allelopathy. (6 marks)
- c. Discuss, with specific examples, the present role of allelopathy in weed management. (6 marks)
- d. What is the siSwati name and the scientific name of the most troublesome weed in Swaziland? (2 x 2 = 4 marks)
- e. Name the weed control methods that have been used in Swaziland to control the weed named in 5(d) above. (5 marks)

[Total marks for Question 5 = 25 marks]