



SUPPLEMENTARY 2004/2005

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**UNIVERSITY OF SWAZILAND
SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURE - CROP
PRODUCTION
BACHELOR OF SCIENCE IN AGRICULTURE -
HORTICULTURE**

COURSE CODE: CP 501

TITLE OF PAPER: WEED SCIENCE

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTION: ANSWER FOUR QUESTIONS. ANSWER QUESTION
1 AND ANY OTHER THREE [3] QUESTIONS.**

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BY THE INVIGILATOR.**

INSTRUCTION: ANSWER FOUR QUESTIONS. ANSWER QUESTION 1 AND ANY OTHER THREE [3] QUESTIONS.

**QUESTION 1
(THIS QUESTION IS COMPULSORY)**

A. Briefly but clearly differentiate between each the following pairs of terms:

- (i) Weed prevention; weed control (10 marks)
- (ii) Weed eradication; weed management. (10 marks)

B. (i) State the scientific names of two weeds that have recently been introduced into Swaziland.

(4 marks)

(ii) Explain how each weed was probably introduced into Swaziland (2 x 4 = 8 marks)

(iii) Specify how each weed is usually spread from one farm to another? (2 x 4 = 8 marks)

[40 marks]

QUESTION 2

- (a) What do you understand by competition? (5 marks)
- (b) Discuss three factors that plants usually compete for in the field. (15 marks)

[20 marks]

QUESTION 3

- (a) Name five benefits of weeds. (4 marks)
- (b) List five harmful effects of weeds. (4 marks)
- (c) List five characteristics of weeds. (4 marks)
- (d) Using both scientific and common English names, state the names of four weeds common in Swaziland. Beside each name, classify the weed according to its lifespan.
(2 x 4 = 8 marks)

[20 marks]

QUESTION 4

- (i) What is a herbicide? (4 marks)
- (ii) What is a contact herbicide? (4 marks)
- (iii) What is a systemic herbicide? (4 marks)
- (iv) What is a selective herbicide? (4 marks)
- (v) What is the difference between a preemergence herbicide and a postemergence herbicide? (4 marks)

[20 marks]

QUESTION 5

- (a) What is the name of the common equipment used for applying herbicides on small farms? (1 mark)
- (b) Draw a large diagram of the equipment named in 5(a) above and label four of its major parts. (6 marks)
- (c) List four precautions that should be taken when handling or using herbicides. (4 marks)
- (d) Name four advantages of herbicides. (4 marks)
- (e) Name two disadvantages of using herbicides. (2 marks)
- (f) Explain what a herbicide can achieve on a farm whereas biological weed control method cannot achieve. (3 marks)

[20 marks]