



2ND SEM. 2005/2006

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN CROP SCIENCE
(AGRICULTURAL EDUCATION, AGRICULTURAL
ECONOMICS AND MANAGEMENT, CROP
PRODUCTION, AND LAND AND WATER
MANAGEMENT OPTIONS) YEAR V**

COURSE CODE: CP 507

TITLE OF PAPER : FIELD CROPS

TIME ALLOWED : TWO [2] HOURS

**INSTRUCTIONS : ANSWER ANY FOUR QUESTIONS
ALL QUESTIONS CARRY EQUAL MARKS**

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

INSTRUCTIONS : ANSWER ANY FOUR QUESTIONS.

QUESTION 1

The increased production of sugar cane in Swaziland in recent years has resulted in decreased food security. Discuss.

(25 marks)

QUESTION 2

Genetically modified foods-discuss their advantages and disadvantages.

(25 marks)

QUESTION 3

Write brief notes on the following:-

- (a) Determination of photosynthetic efficiency in crops (5)
- (b) Growth analysis (5)
- (c) Sustainable agriculture (5)
- (d) Crop modeling (5)
- (e) Plant competition (5)

(25marks)

QUESTION 4

Improved crop yields have been made possible as a result of two main factors.
These are:-

- (a) Plant breeding improvements (12.5)
- (b) Improved production practices (12.5)

(25 marks)

QUESTION 5

Discuss the aspect of climate change under the following:-

- (a) Likely effects on agriculture (12.5)
- (b) Factors that can be used to mitigate the likely effects (12.5)

(25 marks)