



2ND SEMESTER 2005/2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : BACHELOR OF SCIENCE IN AGRICULTURE
YEAR 4 [CROP PRODUCTION AND
HORTICULTURE OPTIONS]**

COURSE CODE : CP 406

TITLE OF PAPER : CROP BREEDING

TIME ALLOWED : TWO [2] HOURS

INSTRUCTIONS : ANSWER ANY FOUR [4] QUESTIONS

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

QUESTION 1

What were Reverend Thomas Malthus' postulates of 1798? Indicate whether his postulates were met or not. If they were not/met give a detailed accounts of why they were not/met.

[25]

QUESTION 2

Write short notes on the contribution of the following scientists in our understanding of plant breeding today.

- a) E.M. East
- b) W.L.J. Johannsen

[25]

QUESTION 3

Write an essay on the procedures executed in the application of Pure Line breeding and Pedigree methods of Crop Improvements.

[25]

QUESTION 4

Compare and contrast the general principles and procedures in involved in breeding self-pollinating and inbreeding crops.

[25]

QUESTION 5

Discuss the significance of plant introductions in crop adaptation in United States of America [USA].

[25]