

SUPP. 2005/2006

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

DIPLOMA IN AGRICULTURE YEAR III AND

DIPLOMA IN AGRICULTURAL EDUCATION

YEAR III

COURSE CODE:

CP 301

TITLE OF PAPER:

INTRODUCTION TO FIELD CROPS

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER ANY FOUR (4) QUESTIONS.

ANSWER QUESTION FIVE(5) IN A SEPARATE

ANSWER SCRIPT

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INSTRUCTIONS: ANSWER ANY FOUR(4)QUESTIONS.
ANSWER QUESTION FIVE(5) IN A SEPARATE
ANSWER SCRIPT.

QUESTION 1

Discuss the factors that limit maize production in Swaziland and suggest practical solutions to each of the factors.

(25 marks)

QUESTION 2

Write briefly on the following:-

- (a) Mechanism of drought resistance in sorghum (5)
- (b) Benefits of grain legumes in a cropping system (5)
- (c) List five morphological/physiological changes that have occurred in plants with domestication (5)
- (d) Crop classification (5)
- (e) Suitability of rice production in Swaziland (5)

(25 marks)

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QUESTION 3

Discuss the production guide for bambara groundnut (Vigna subterranea (L.) Verdc.

(25 marks)

QUESTION 4

Discuss how the yield of sorghum can be increased in Swaziland, or in your country, if other than Swaziland.

(25 marks)

QUESTIONS 5

(a) List five wheat yield components

(5 marks)

(b) "Swazi farmers should embrace irrigated wheat production in their cropping calendars". Discuss. (You may wish to use the following subheadings: temperatures; diseases pressures; market forces; double cropping potential; wheat quality; yield components; irrigation constraints; land constraints). (20 marks)

(25 marks)