



**SUPPLEMENTARY 2004/2005**

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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME:** DIPLOMA IN AGRICULTURE YEAR 2  
DIPLOMA IN AGRICULTURAL EDUCATION  
YEAR 2  
DIPLOMA IN HOME ECONOMICS YEAR 2  
DIPLOMA IN HOME ECONOMICS EDUCATION  
YEAR 2

**COURSE CODE:** CP 201

**TITLE OF PAPER:** PRINCIPLES OF CROP PRODUCTION

**TIME ALLOWED:** TWO (2) HOURS

**INSTRUCTIONS:** ANSWER QUESTION 1, WHICH IS  
COMPULSORY AND ANY OTHER TWO (2)  
QUESTIONS

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BY THE CHIEF INVIGILATOR**

**QUESTION 1****[THIS QUESTION IS COMPULSORY]**

Write an essay on cropping systems

**[40 marks]****QUESTION 2**

“Seed is the most important input in crop production”. Discuss this statement.

**[30 marks]**

**QUESTION 3**

A farmer at Luyengo wishes to plant 105 ha of maize and would like to apply 400 kg/ha of a compound as basal fertilizer and 300 kg/ha of a nitrogenous fertilizer as side dressing fertilizer.

[i] If the farmer uses banding method in applying the compound fertilizer, how much [g] fertilizer will the farmer apply per maize row 50 m long?

**[7 marks]**

[ii] How much [g] LAN will the farmer apply per plant if the farmer uses dollop method of application.?

**[8 marks]**

[iii] Calculate the total amount of N, P and K the farmer applied to the 105 ha of the maize farm.

Please show your calculations in all cases

**[ 15 marks]**

**QUESTION 4**

Explain how the quality of kraal manure can be improved in Swaziland, or in your country, if other than Swaziland

**[30 marks]**