

2ND SEMESTER 2007/2008

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: DIPLOMA IN AGRICULTURE YEAR 3
DIPLOMA IN AGRICULTURAL EDUCATION YEAR 3

COURSE CODE:

CP 301

TITLE OF PAPER:

INTRODUCTION TO FIELD CROPS

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER FOUR (4) QUESTIONS OF YOUR CHOICE

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QUESTION 1

(i) Describe the two types of groundnuts based on their growth habits. 10)
(ii) Outline the problems faced by groundnuts farmers in Africa. 10)
(iii) What are the two main cultural practices that assist in controlling pests and diseases. (5)

(25 marks)

QUESTION 2

Write briefly on the following:-

Why sorghum plants thrive better in drought conditions than maize? (i) (5) (ii) Nodulation process in grain legume crops. (5) (iii) Determinate and indeterminate crops. (5) (iv) Photoperiodism and its importance in crop yields. **(**5) (v) The difference between lowland and upland rice cultivation. (5) (25 marks)

QUESTION 3

- a. Write a crop production guide for Maize (Zea mays) under the following sub titles:
 - (i) Climatic requirements
 a. Temperature
 b. Water
 c. Photoperiod

 (ii) Fertilization (10)
- b. Write briefly on the three types of roots in maize and their main functions (5) (25 marks)

QUESTION 4

a. Discuss the raising of seedlings in tobacco production in your country. (10)

b. What is meant by topping and suckering of tobacco plants and why are these practices important in tobacco production? (10)

c. List the different types of tobacco curing practiced in your country. (5)

(25 marks)

QUESTION 5

a. Write about the specific climatic parameters required for sugarcane production. (10)

b. Write briefly about the planting material and planting process of sugarcane. (15)

(25 marks)