

## UNIVERSITY OF SWAZILAND

## RESIT EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS

AND AGRIBUSINESS YEAR TWO

BACHELOR OF SCIENCE IN ANIMAL SCIENCE YEAR TWO

BACHELOR OF SCIENCE IN ANIMAL SCIENCE YEAR TWO

(DAIRY OPTION)

COURSE CODE: CPR211

TITLE OF PAPER: PRINCIPLES OF CROP PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER QUESTION ONE, WHICH IS A COMPULSORY

QUESTION AND ANY OTHER THREE (3) QUESTIONS

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

### **QUESTION 1**

Describe the environmental factors affecting crop production in Swaziland.

(25 Marks)

#### **QUESTION 2**

Describe the soil factors that must be considered to ensure there is an ideal or a favourable soil environment for growing crops.

(25 Marks)

#### **QUESTION 3**

- a. Distinguish between the following pairs of words/terms. Use examples to illustrate your answers.
- (i) Biennial and perennial crops
- (ii) Normal and abnormal seedlings
- (iii) Top dressing fertilizer and side dressing fertilizer
- (iv) Cash and catch crops
- (v) Seed and grain
- b. Using the oven method of moisture determination, calculate the moisture content of a maize crop if the weight of the empty container is 21.973 g and the weight of the maize sample is 26.439 g after drying.

(25 Marks)

## **QUESTION 4**

Write briefly on the following. Give examples to illustrate your answers, where necessary.

, and a secondary.
(3 Marks)
(3 Marks)
(3 Marks)
(3 Marks)
(4 Marks)
(5 Marks)
(4 Marks)

# **QUESTION 5**

- a. What are the advantages and disadvantages of localized fertilizer placement method of fertilizer application? (14 Marks)
- b. What is foliar fertilizer application? Give advantages and disadvantages of this method.
  (11 Marks)