

#### 1st SEMESTER 2014/2015

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#### UNIVERSITY OF SWAZILAND

#### SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

**BACHELOR OF SCIENCE IN AGRICULTURAL** 

**ECONOMICS AND AGRIBUSINESS YEAR TWO** 

BACHELOR OF SCIENCE IN ANIMAL SCIENCE

YEAR 2

BACHELOR OF SCIENCE IN ANIMAL SCIENCE

YEAR 2 (DAIRY OPTION)

**COURSE CODE:** 

**CP 205** 

TITLE OF PAPER: PRINCIPLES OF CROP PRODUCTION

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTION:** 

ANSWER QUESTIONS 1 AND 2, WHICH ARE

COMPULSORY AND ANY OTHER TWO QUESTIONS OF

YOUR CHOICE

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

### QUESTION 1 (THIS IS A COMPULSORY QUESTION)

(a) Write an essay on "Climate change"

(14 Marks)

(b) A farmer wishes to plant 50 ha of maize applying 25 kg/ha of phosphorus. If the source of phosphorus is single superphosphate, how much will the farmer spend on single superphosphate 50 kg of superphospate cost E175.00?

(8 Marks)

(c) If the cost of maize seed is E15.00/kg, how much will the farmer spend on seeds for the 50 ha?

(6 Marks)

[28 Marks]

## QUESTION 2 (THIS IS ALSO A COMPULSORY QUESTION)

Write briefly on a to g listed below. Give examples to illustrate your answers, where necessary. Each question carries four marks.

- (a) Ideal characteristics of an agroforestry tree.
- (b) Seed vigour tests.
- (c) Crop classification.
- (d) Crop competition.
- (e) Methods of determining leaf area in crop plants.
- (f) Methods of applying fertilisers to crops
- (g) Factors contributing to efficient use of leaves in crop production.

[28 Marks]

#### **QUESTION 3**

Write an essay on "Cropping systems"

[22 Marks]

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# **QUESTION 4**

Distinguish between the following pairs of terms.

(a) El nino and La nina.	(4 Marks)
(b) Broadcasting and top dressing fertilizers.	(4 Marks)
(c) Strip cropping and alley cropping system.	(4 Marks)
(d) Efficient nodulation and effective nodulation.	(3 Marks)
(e) Effective tillers and non-effective tillers in rice.	(4 Marks)
(f) Relay intercropping and catch crop.	(3 Marks)

## [22 Marks]

## **QUESTION 5**

Write an essay on how bean (*Phaseolus vulgaris* L.) crop yields can be increased in Swaziland.

[22 Marks]