



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: CPR 211

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

There is an outbreak of downy mildew affecting maize green mealies production in Vuvulane, Lowveld Region of the Kingdom of ESwatini. You have been employed by the Ministry of Agriculture as an Extension Officer, describe the cropping system you would advise the farmers to use in order to solve the problem.

(25 Marks)

QUESTION 2

a. Describe the effect of temperature on crop production.

(12 Marks)

b. Describe the effect of moisture on crop production.

(13 Marks)

QUESTION 3

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

- a. Catch crops (3 Marks)
- b. Exhaustive crops (4 Marks)
- c. Smother crops (4 Marks)
- d. Nurse crops (3 Marks)
- e. Guard/barrier crops (4 Marks)
- f. Trap crops (4 Marks)
- g. Cover crops (3 Marks)

QUESTION 4

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

- a. Effect of land on crop production (8 Marks)
- b. Objectives of economic security at farm level (3 Marks)
- c. Classification of plants according to photoperiod requirements (6 Marks)
- d. Seed vigour (4 Marks)
- e. Inert matter (4 Marks)

QUESTION 5

a) Describe crop classification based on the life of crops/duration of crops in the field.
(9 Marks)

b) Describe the botanical classification of maize and beans.
(16 Marks)