



1ST SEMESTER 2008/2009

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR'S DEGREE IN AGRIC. ECON. & AGRIC.
BUSINESS MANAGEMENT YEAR 2
BACHELOR'S DEGREE IN AGRIC. EDUCATION
YEAR 2
BACHELOR'S DEGREE IN AGRONOMY YEAR 2
BACHELOR'S DEGREE IN ANIMAL SCIENCE YEAR 2**

COURSE CODE: CP 202

TITLE OF PAPER: PRINCIPLES OF CROP PRODUCTION

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS OF YOUR
CHOICE**

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

QUESTION 1

Write on the following. Use examples to illustrate your answers, where possible. Each question carries five marks.

- (a) Relay intercropping system
- (b) Sunnhemp as a green manure crop
- (c) Crop diversification
- (d) Millennium Development Goal Number 1
- (e) Factors that affect moisture use by crop plants

(25 Marks)

QUESTION 2

Write briefly on the following. Use examples to illustrate your answers, where possible.

- (a) Explain the importance of the knowledge of the origin of crops in agronomy (7 marks)
- (b) Discuss five methods of testing seeds and seedlings for vigour (5 marks)
- (c) List three advantages and three disadvantages of crop rotation (6 marks)
- (d) Seed fairs (7 Marks)

QUESTION 3

- (a) Discuss the factors that affect efficient use of fertilisers applied to crop plants
(5 Marks)
- (b) List four advantages and four disadvantages of using tied ridges for maize production in Swaziland. Explain how the disadvantages can be addressed
(10 Marks)
- (c) What is global warming?
(5 Marks)
- (d) What are feedstocks?
(5 Marks)

QUESTION 4

- (a) List the six agro-ecological zones of Swaziland
(3 marks)
- (b) List five agricultural characteristics of each zone
(5 marks)
- (c) Draw a map of Swaziland (full page) showing five crops (one cereal, one pulse crop, one commercial fruit tree, one feedstock and one medicinal plant) that is grown in the zone.
(17 marks)

QUESTION 5

Distinguish between the following words/phrases. Each answer carries five marks

- (a) Catch crop and cash crop
- (b) Top dressing fertiliser and side dressing fertiliser
- (b) Biofuel and biodiesel
- (d) Agrosylvicultural and sylvopastoral land-use systems
- (e) Breeder and foundation seeds