

1st SEMESTER 2007/2008

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRIC. ECON. & AGRIC. BUSINESS MANAGEMENT YEAR 2

BACHELOR OF SCIENCE IN AGRONOMY YEAR 2

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

YEAR 2

BACHELOR OF SCIENCE IN ANIMAL SCIENCE YEAR 2

COURSE CODE:

CP 202

TITLE OF PAPER:

PRINCIPLES OF CROP PRODUCTION

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER FOUR (4) QUESTIONS OF YOUR CHOICE

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QUESTION 1

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

- (a) Black layer in maize (Zea mays L.)
- (b) Methods of determining leaf area in crop plants
- (c) Importance of involving farmers in agricultural research
- (d) Sink-source relationships
- [e] Crop classification

(25 Marks)

QUESTION 2

"Seed is the most important input in crop production". Discuss the above statement

(25 Marks)

QUESTION 3

Each question carries five marks

- (a) List four types of seed viability tests and discuss one of them in detail.
- (b) Discuss four factors that plants compete for.
- (c) List four cropping systems and discuss one of them in detail.
- (d) Write briefly on the factors that affect growth and development in crop Plants.
- (e) A farmer wishes to apply 112 kg/ha of nitrogen to a maize crop. If a bag of limestone ammonium nitrate fertiliser costs E105.00, how much will be farmer spend on the fertiliser?

(25 Marks)

QUESTION 4

(a) What is an indigenous crop?. List three examples to illustrate your answer.

(5 Marks)

(b) What is the importance of knowing the place of origin of crop species?

(5 Marks)

(c) Explain why only a very small proportion of crop species are used by humans

(10 Marks)

(d) How can the problem in (c) above be addressed?

(5 Marks)

QUESTION 5

Write, in DETAIL, on the following. Each question carries five marks

- (a) Seed yield and yield components.
- (b) Methods of determining seed health in crop plants.
- (c) The disadvantages of using kraal manure for crop production.
- (d) Why some farmers do not use kraal manure for crop production.
- (e) Heat units or degree days

(25 Marks)