



2ND SEMESTER 2009/2010

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMMES: BACHELOR OF SCIENCE IN AGRONOMY, YEAR 4

COURSE CODE: CP 407

TITLE OF PAPER: GRAIN LEGUME CROP PRODUCTION

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTION: ANSWER A TOTAL OF FOUR [4] QUESTIONS. ALL
QUESTIONS CARRY EQUAL MARKS.**

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

INSTRUCTIONS: ANSWER ANY FOUR [4] QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

QUESTION 1

- a. Explain why some farmers prefer growing field bean to groundnut. (6 marks)
- b. Explain the low yield of field bean in small-scale farmers' plots. (6 marks)
- c. Discuss two field pests of named grain legumes and two storage pests of named grain legumes (13 marks)

[Total marks for Question 1 = 25 marks]

QUESTION 2

- a. Briefly, explain what a grain legume is. (1 mark)
- b. What is another name for grain legumes? (1 mark)
- c. Using a tabular format, name four grain legumes (other than groundnut or field bean). Provide both the common English names and scientific names. (8 marks)
- d. Discuss the role of grain legumes in cropping systems in Swaziland. (15 marks).

[Total marks for Question 2 = 25 marks]

QUESTION 3

Write an essay on the production practices for groundnut, based on:

- a. Land preparation (5 marks)
- b. Agronomic practices (15 marks)
- c. Aflatoxin (5 marks)

[Total marks for Question 3 = 25 marks]

INSTRUCTIONS: ANSWER ANY FOUR [4] QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

QUESTION 4

- a. List and discuss the major production challenges faced by farmers who grow grain legumes in Swaziland. (20 marks)
- b. Suggest how five of these challenges can be handled. (5 marks)

[Total marks for Question 4 = 25 marks]

QUESTION 5

- a. Discuss three industrial uses for named grain legumes. (3 x 3 marks = 9 marks)
- b. Name and describe the signs and symptoms of two major diseases of named grain legumes in Swaziland. (2 x 3 = 6 marks)
- c. How are the two diseases named in 5(b) above controlled? (10 marks)

[Total marks for Question 5 = 25 marks]