



**2<sup>ND</sup> SEMESTER 2008/2009**

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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

**PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY YEAR 4**

**COURSE CODE: CP 407**

**TITLE OF PAPER: GRAIN LEGUME CROPS 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 what the term, 'grain legume' means. (3 marks)
- b. What is another term for grain legumes? (3 marks)
- c. Discuss the benefits of grain legumes in a cropping system. (10 marks)
- d. Discuss the preservation challenges encountered in a specific grain legume that is cultivated in Swaziland. (9 marks)

**[25 marks]**

**QUESTION 2**

- a. Which grain legume is most commonly grown in Swaziland and can be eaten raw by humans? (1 mark)
- b. Discuss the ecological requirements of the grain legume named in Question 2(a) above. (8 marks)
- c. Discuss the agronomic practices used in the production of the grain legume named in Question 2(a) above. (8 marks)
- d. Name two diseases of the grain legume named in Question 2(a) above. (4 marks)
- e. Name two storage pests of the grain legume named in Question 2(a) above. (4 marks)

**[25 marks]**

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

**QUESTION 3**

- a. Explain why some farmers prefer planting sugar beans to groundnut. (5 marks)
- b. Explain the low yield of sugar beans from small-scale farmers' plots. (5 marks)
- c. What do you understand by "pegging" in grain legume production? (5 marks)
- d. Explain an appropriate position of grain legumes in a cropping system. (5 marks)
- e. What is the scientific name for a 'peg'? Briefly, explain the botanical relationship between a peg and the relevant parts of a groundnut flower (5 marks)

**[25 marks]**

**QUESTION 4**

Discuss the ecological and agronomic requirements for Jugo beans in Swaziland.

**[25 marks]**

**QUESTION 5**

- a. Discuss five recent advances in grain legume production. (20 marks)
- b. What has been the role of the African continent in these advances in grain legume production? Justify your answer. (5 marks)

**[25 marks]**