



**2<sup>ND</sup> SEMESTER 2010/2011**

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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

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

**COURSE CODE: CP 401**

**TITLE OF PAPER: CEREAL 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.**

**QUESTION 1**

“All cereals are grasses, but all grasses are not cereals.” Discuss this statement and give at least four instances to show that this statement is true.

**(Total marks for Question 1 = 25 marks)**

**QUESTION 2**

(a). State the common English names and scientific names of two cereal crops that are not commonly grown in Swaziland, but the products of these cereals are commonly used by industry in Swaziland. (5 marks)

(b). Draw and label the major parts of the flowering head of one of the cereal crops named in 2(a) above. (5 marks)

(c). Give two reasons for the two cereal crops named in 2(a) above not being commonly grown in Swaziland, despite the large-scale use of these cereal crops in Swaziland. (5 marks)

(d). Specify how one of the crops named in 2(a) above is used in Swaziland. (5 marks)

(e). Specify the efforts that have been made to grow one of the cereals named in 2(a) above in Swaziland. Name the location where efforts have been made to grow the crop. (5 marks)

**(Total marks for Question 2 = 25 marks)**

**QUESTION 3**

Discuss the following aspects of production of the cereal crop that is recommended for the Lowveld of Swaziland:

(a). Two recommended varieties (5 marks)

(b). Five major agronomic practices used in producing the crop under small-scale agriculture (5 marks)

(c). Two major diseases and how to control the diseases. (5 marks)

(d). Two major insect pests and how to control the pests. (5 marks)

(e). Harvesting methods in small-scale farming. (5 marks)

**(Total marks for Question 3 = 25 marks)**

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

**QUESTION 4**

Discuss the following aspects of the staple food crop in Swaziland:

- (a). agronomic practices (10 marks)
- (b). ecological requirements (10 marks)
- (c). two major field pests (2 marks)
- (d). two major storage pests. (2 marks)
- (e). one virus disease (1 mark)

**(Total marks for Question 4 = 25 marks)**

**QUESTION 5**

- (a). Discuss nursery establishment and management practices of the cereal crop that is served of most weddings or other ceremonies in Swaziland. (10 marks)
- (b). Explain the land preparation procedures for the cereal crop discussed in Question 5(a) above. (10 marks)
- (c). Describe two field pests encountered in the production of the crop discussed in Question 5(a) above, and explain how the pests are managed. (5 marks)

**(Total marks for Question 5 = 25 marks)**