



**UNIVERSITY OF ESWATINI  
MAIN EXAMINATION PAPER**

**PROGRAMME:**

**BACHELOR OF SCIENCE IN AGRONOMY 2  
BACHELOR OF SCIENCE IN AGRONOMY 4**

**COURSE CODE:**

**CPR202/CP 405**

**TITLE OF PAPER:**

**ANNUAL CROPS/CEREALS AND GRAIN LEGUME  
PRODUCTION**

**TIME ALLOWED:**

**2 HOURS**

**INSTRUCTIONS:**

**ANSWER QUESTION 1 [COMPULSORY] AND ANY  
OTHER THREE [3] QUESTIONS OF YOUR CHOICE**

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THE CHIEF INVIGILATOR**

QUESTION 1

**THIS IS A COMPULSORY QUESTION**

Write short notes on the following words or phrases, each question carries five marks

- a) Growth inhibitors
- b) Anthesis silking interval
- c) Crop geometry
- d) Drought escape
- e) Land equivalent ratio

[25 marks]

QUESTION 2

- a). Describe how tobacco seedlings are raised beginning from seedbed preparation up to transplanting. [10 marks]
- b). Sketch a maize seed and show all the external parts [5 marks]
- c) Explain why open pollinated varieties [OPVs] of maize are now gaining popularity in Swaziland (10 marks)

[25 marks]

QUESTION 3

- a). Discuss interspecific and intraspecific crop competition. [10 marks]
- b). Why are farmers discouraged from keeping their own seeds after harvesting hybrid maize? [5 marks]
- c). Beans are normally planted around February in Eswatini. Justify this timing in terms of growth duration and climatic requirements. [10 marks]

**QUESTION 4**

- a) Discuss three (3) constraints to cassava production in Swaziland. [15 marks]
  - b) Discuss the crop adaptation of taro [5 marks]
  - c) Why is ridging essential when growing root and tuber crops? [5 marks]
- [25 marks]

**QUESTION 5**

- a) Discuss the various methods of placing cassava stem cuttings indicating the unique features of each method. [15 marks]
  - b) Discuss morphological features associated with drought tolerance in sorghum [10 marks]
- [25 marks]