

UNIVERSITY OF ESWATINI
MAIN EXAMINATION PAPER

PROGRAMMES:

BACHELOR OF SCIENCE IN AGRIC. ED. 4

BACHELOR OF SCIENCE IN ABE 4

BACHELOR OF SCIENCE IN AEM 4

COURSE CODE:

CP 409

TITLE OF PAPER:

FIELD CROPS

TIME ALLOWED:

2 HOURS

INSRUCTIONS:

ANSWER ANY FOUR [4] QUESTIONS

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QUESTION 1

Write short notes on the following phrases.

		[25 marks]
e)	Land equivalent ratio	(5 marks)
	Drought escape	(5 marks)
c)	Crop geometry	(5 marks)
b)	Anthesis silking interval	(5 marks)
a)	Growth inhibitors	(5 marks)

QUESTION 2

a). Discuss three reasons that have led to the renewed interest in intercropping among Swazi Nation Land farmers. [9 marks]

b) Why do large scale farmers find it difficult to practice intercropping? [6 marks]

c) Extra early maturing maize varieties are now gaining popularity especially given climate change. Discuss four disadvantages of these seeds. (10 marks)

[25 marks]

QUESTION 3

a). Discuss interspecific and intraspecific crop competition. [10

[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]

[25 marks]

QUESTION 4

- a) Discuss three (3) constraints to sweet potato production in Swaziland. [15 marks]
- b) A groundnut farmer has a problem of a fungal disease called white rot in the field. Suggest ways with which the farmer can address this problem. [5 marks]
- c) Why is ridging essential when growing root and tuber crops? [5 marks]

[25 marks]

QUESTION 5

- a) Briefly discuss any three features of a good cassava stem cutting. [15 marks]
- b) Discuss the morphological features associated with drought tolerance in sorghum [10 marks]

[25 marks]