



UNIVERSITY OF SWAZILAND FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN AGRONOMY YEAR 4

COURSE CODE:

CP 403

TITLE OF PAPER:

FIBRE, TOBACCO AND TUBER CROPS

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER ANY FOUR QUESTIONS

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QUESTION 1

Describe the cultivation of any root or tuber crop under each of the following headings:

a)	Climatic and sail	
	Climatic and soil requirements	(5 marks)
b)	Seed-bed preparation.	(5 marks)
c)	Fertiliser requirements.	(5 marks)
d)	Insect pest and disease control	(5 marks)
e)	Yield per hectare.	(5 marks)
		[25 Marks

QUESTION 2

- a) Discuss how the presence of hydrocyanic glucosides (HCN) in all parts of a cassava plant presents some problems in the marketing and consumption of cassava. (15 marks)
- b) Discuss the nutritional value of cassava roots and how a diet based cassava may be improved (10 marks)

[25 Marks]

QUESTION 3

Discuss the commercial, economic, and social benefits of Bt crops. In your discussion identify the present and future impacts

[25 Marks]

QUESTION 4

a)	Describe how cotton is harvested by small-scale farmers	(5 marks)
b)	Describe in detail the nursery procedures in raising tobacco seedlings	from seedbed
	preparation up to transplanting	(10 marks)
c)	Explain what harvest index is and indicate how it is calculated	(5 marks)
d)	Give examples as to why the harvest index is low in some crops	(5 marks)
		[25 Marks]

QUESTION 5

Cotton production in Swaziland provides employment in rural communities yet its production in the 2014/2015 season decreased considerably while the production increased by 113% in neighbouring South Africa. Discuss this situation and propose strategies for increasing Swazi production.

[25 Marks]

