



2nd SEMESTER 2013/2014

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: CP 407

TITLE OF PAPER: SUGAR CANE PRODUCTION

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTION: ANSWER QUESTIONS ONE AND TWO, WHICH ARE
COMPULSORY AND ANY OTHER TWO (2)
QUESTIONS OF YOUR CHOICE**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED
BY THE CHIEF INVIGILATOR**

**QUESTION 1
(THIS IS A COMPULSORY QUESTION)**

Write an extension-type production guide for a small-holder farmer in the Malkerns Valley, who wishes to grow 20 ha of sugar cane [Use diagrams/tables where necessary to illustrate your production advice].

(28 Marks)

**QUESTION 2
(THIS IS ALSO A COMPULSORY QUESTION)**

Write on the following terms. Each question carries four marks.

- (a) Filter cake
- (b) *Cynodon* spp.
- (c) Smut.
- (d) Seed cane.
- (e) Nco376.
- (f) Ethephon.
- (g) Eldana.

(28 Marks)

QUESTION 3

“Sugar cane is the catalyst for the Swazi economy” Discuss this statement.

(22 Marks)

QUESTION 4

Write briefly on four types of irrigation systems used in sugar cane production in Swaziland. In your answers include advantages and disadvantages of each.

(22 Marks)

QUESTION 5

Write an essay on “Chemical ripening in sugar cane production in Swaziland”

(22 Marks)