



2<sup>ND</sup> SEM 2011/2012

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION

**PROGRAMME:** BACHELOR OF SCIENCE IN AGRONOMY YEAR FOUR (4)

**COURSE CODE:** CP 409 old/ CP 407 new

**TITLE OF PAPER:** SUGARCANE PRODUCTION

**TIME ALLOWED:** TWO (2) HOURS

**INSTRUCTIONS:** ANSWER ANY FOUR (4) QUESTIONS.

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

ANSWER ANY FOUR (4) QUESTIONS

**QUESTION 1**

Give a detailed discussion about the major climatic factors affecting quality of sugarcane

[25 Marks]

**QUESTION 2**

- (a) Planting of sugarcane is carried out by a team of 13 people, what are their different roles (10 marks)
- (b) Why is it important to soak the cutting tool in each of the buckets placed on either sides of the field being planted. Give a brief description of the symptoms of the disease being prevented. (15 marks)

[25 Marks]

**QUESTION 3**

- (a) Sugarcane is referred to as “Swazi gold” in Swaziland, it is a sun loving, water loving and fertilizer loving plant. Give a brief discussion of the three (3) organic manures that can be used in sugarcane production

[25 Marks]

**QUESTION 4**

- (a) There seems to have been some sugarcane in Natal in early Zulu history. It was grown by the local inhabitants for chewing and there was no attempt for making sugar. Discuss the four phases of sugarcane varieties development. (20 marks)
- (b) Name five sugarcane varieties produced in Swaziland. (5 marks)

[25 Marks]

**QUESTION 5**

Discuss the five principles of disease control in sugarcane.

[25 Marks]