



**2<sup>ND</sup> SEMESTER 2012/2013**

**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION**

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

**COURSE CODE: CP 407**

**TITLE OF PAPER: SUGARCANE PRODUCTION**

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

**INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS**

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

**COURSE CODE: CP407 (M) 2011/2012**

**QUESTION 1**

- a) What are the advantages and disadvantages of not burning trash in post harvest management of a sugarcane field?
- b) When is it advisable to trash?

**[25 Marks]**

**QUESTION 2**

In sugarcane breeding, preliminary evaluation of germplasm is carried out for desirable agronomic characteristics before it is included in the breeding program.

List and discuss the economic importance of each one of these agronomic characteristics.

**[25 Marks]**

**QUESTION 3**

Describe the four (4) portable overhead irrigation systems used in sugarcane production.

**[25 Marks]**

**QUESTION 4**

- a) Planting of sugarcane is carried out by a team of 15 people, describe in detail 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 5**

- a) List any four varieties of sugarcane grown in the Swaziland. (5 marks)
- b) What are the key requirements that must be met by a grower wishing to establish a sugarcane growing operation in Swaziland? (10 marks)
- c) Why is the distance to the mill an important consideration when a decision to grow sugarcane is made? (10 marks)

**[25 Marks]**