



UNIVERSITY OF ESWATINI
RESIT/SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY YEAR 2
BACHELOR OF SCIENCE IN AGRONOMY YEAR 4

COURSE CODE: CPR203/CP 407

TITLE OF PAPER: SUGARCANE PRODUCTION

TIME ALLOWED: 2 HOURS

INSTRUCTIONS: ANSWER ALL QUESTIONS

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

QUESTION 1

Write short notes on the following words or phrases, reference should be made to sugarcane. Each question carries five marks

- a) Fertigation
- b) Stillage
- c) Sugarcane ripening
- d) Whitegrub
- e) Tillering

[25 marks]

QUESTION 2

Discuss the use of sunnhemp (*Crotalaria juncea* L.) as a green manure crop in the Swaziland sugar industry. What are the advantages and disadvantages compared to other crops that could be used as green manure crops?

[25 marks]

QUESTION 3

- a). Name the 4 growth stages of sugarcane (2 marks)
- b). Describe the Agronomic practices that are critical in the last stage of sugarcane growth (5 marks)
- c). The burning of sugarcane before harvesting is strongly discouraged. Briefly describe six (6) factors that will compel one to trash instead of burning. (18 marks)

[25 marks]

QUESTION 4

- a). Planting of sugarcane is carried out by a team of 13 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. (5 marks)
- c). Give a brief description of the symptoms of the disease being prevented. (10 marks)

[25 marks]