



2<sup>ND</sup> SEMESTER 2009/2010

PAGE 1 OF 2

**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

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

**COURSE CODE: CP 405**

**TITLE OF PAPER: BIOFUEL CROPS**

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

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

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

73

**QUESTION 1**

**[THIS IS A COMPULSORY QUESTION]**

There are about 600,000 cattle in Swaziland, which have both beneficial and harmful effects on the Swazi nation. Discuss the above statement. Include in your discussion how the beneficial effects can be harnessed and the harmful ones addressed.

(28 Marks)

**QUESTION 2**

**[THIS IS ALSO A COMPULSORY QUESTION]**

Discuss the advantages and the disadvantages of growing jatropha as a feedstock in Swaziland.

(28 Marks)

**QUESTION 3**

Write briefly on the following. Each question carries five marks.

- (a) Carbon sequestration (4 marks)
- (b) Cassava as a feedstock in Swaziland (5 marks)
- (c) Use of algae as a feedstock (5 marks).
- (d) Status of ethanol production in Swaziland (4 marks).
- (e) Kyoto protocol (4 marks)

(22 Marks)

**QUESTION 4**

Discuss the effectiveness or otherwise of natural forests, man-made forests and sugarcane as carbon sinks.

(22 Marks)

**QUESTION 5**

Explain why there has been renewed interest in biofuels in recent years.

(22 Marks)