

73



1st SEMESTER 2014/2015

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: CP 402

TITLE OF PAPER: BIOFUEL CROP 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 essay on “Climate-smart agriculture”.

(28 Marks)

QUESTION 2
(THIS IS ALSO A COMPULSORY QUESTION)

Write on the following terms (a to g). Each question carries four marks.

- (a) Carbon market
- (b) La nina
- (c) The future of jatropha in Swaziland.
- (d) Explain why there has been renewed interest in biofuels?
- (e) Fuel sources and uses in Swaziland.
- (f) The Kyoto Protocol.
- (g) Role of cropping systems in carbon sequestration.

(28 Marks)

QUESTION 3

The sugarcane industry is contemplating on expanding area under sugarcane production in Swaziland, possibly for ethanol production. What would be your advice given the fact that water resources are drying up because of global warming?

(22 Marks)

QUESTION 4

“Should we grow crops for humans or for cars?” Discuss the above statement.

(22 Marks)

QUESTION 5

“Swaziland as a third world country should not concern herself about climate change and climate variability”. Discuss the above statement.

(22 Marks)