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1st SEMESTER 2016/2017

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UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER

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

COURSE CODE: CP 401

TITLE OF PAPER: AGROFORESTRY

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 the importance of trees

(28 Marks)

QUESTION 2
(THIS IS ALSO A COMPULSORY QUESTION)

Explain following terms/statements. Each question carries four marks.

- (a) Coppices.
- (b) Fodder banks.
- (c) Multi-purpose trees.
- (d) Reasons why interest was renewed in agroforestry.
- (e) Tapado
- (f) Ideal characteristics of trees for firewood production.
- (g) Methods of breaking seed dormancy in forest tree seeds
- (h) Entomoforestry.

(28 Marks)

QUESTION 3

Write an essay on "Social Forestry"

(22 Marks)

QUESTION 4

Write an essay on "Carbon sequestration".

(22 Marks)

QUESTION 5

How would you introduce agroforestry system into citrus plantations at a farm in Ngoni in the Highveld of Swaziland?

(22 Marks)



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SUPPLEMENTARY EXAMINATION PAPER

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TIME ALLOWED: TWO (2) HOURS

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

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QUESTION 1
(THIS IS A COMPULSORY QUESTION)

Discuss the agroforestry potentials of moringa (*Moringa oleifera* Lam.)

(28 Marks)

QUESTION 2

(THIS IS ALSO A COMPULSORY QUESTION)

Explain following terms/statements. Each question carries four marks.

- (a) Pollarding.
- (b) Taungya system.
- (c) Multi-purpose trees.
- (d) Reasons why agroforestry was abandoned
- (e) Silvopastoral system
- (f) Characteristics of trees for soil and water conservation in agroforestry system
- (g) Shifting cultivation.

(28 Marks)

QUESTION 3

Discuss the term "Carbon sequestration"

(22 Marks)

QUESTION 4

Discuss the term "Social Forestry"

(22 Marks)

QUESTION 5

"Agroforestry is an old land-use system that has no place in present-day agriculture"
Discuss the above statement.

(22 Marks)