



2ND SEMESTER 2009/2010

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

- PROGRAMME:**
- BACHELOR OF SCIENCE IN AGRIC. & BIOSYSTEMS ENGINEERING YEAR 3**
 - BACHELOR OF SCIENCE IN AGRIC. ECONOMICS AND AGRIBUSINESS MANAGEMENT YEAR 3**
 - BACHELOR OF SCIENCE IN AGRIC. EDUCATION YEAR 3**
 - BACHELOR OF SCIENCE IN AGRONOMY YEAR 3**
 - BACHELOR OF SCIENCE IN ANIMAL SCIENCE YEAR 3**
 - BACHELOR OF SCIENCE IN ANIMAL SCIENCE (DAIRY OPTION) YEAR 3**
 - BACHELOR OF SCIENCE IN CONSUMER SCIENCE YEAR 3**
 - BACHELOR OF SCIENCE IN CONSUMER SCIENCE EDUCATION YEAR 3**
 - BACHELOR OF SCIENCE IN FOOD SCIENCE, NUTRITION AND TECHNOLOGY YEAR 3**
 - NUTRITION AND TECHNOLOGY YEAR 3**
 - BACHELOR OF SCIENCE IN HORTICULTURE YEAR 3**
 - BACHELOR OF SCIENCE IN TEXTILE AND APPAREL DESIGN AND MANAGEMENT YEAR 3**

COURSE CODE: CP 304

TITLE OF PAPER: AGROFORESTRY

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

**QUESTION 1
(THIS IS A COMPULSORY QUESTION)**

Write an essay on conservation agriculture.

(28 Marks)

QUESTION 2

(THIS IS ALSO A COMPULSORY QUESTION)

Write briefly on the following:

- (a) World Agroforestry Centre [5 marks].
- (b) Swazi Secret [5 marks].
- (c) Carbon sequestration [6 marks].
- (d) Chitemene system [5 marks].
- (e) Usuthu Pulp Co Ltd (SAPPI) [7 marks].

(28 Marks)

QUESTION 3

Write an essay on how trees improve soil fertility.

(22 Marks)

QUESTION 4

Write an extension-type guideline, with diagrams where appropriate, for a farmer who wishes to raise tree seedlings to establish an agroforestry farm in Luyengo.

(22 Marks)

QUESTION 5

Write an essay on the agroforestry potentials of marula.

(22 Marks)