



1st SEMESTER 2015/2016

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURAL
ECONOMICS AND AGRIBUSINESS YEAR TWO

BACHELOR OF SCIENCE IN ANIMAL SCIENCE
YEAR 2

BACHELOR OF SCIENCE IN ANIMAL SCIENCE
YEAR 2 (DAIRY OPTION)

COURSE CODE: CP 205

TITLE OF PAPER: PRINCIPLES OF CROP PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER QUESTIONS 1 AND 2, WHICH ARE
COMPULSORY AND ANY OTHER TWO 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)

(a) Explain what is "Global Warming"

(14 Marks)

(b) A farmer wishes to plant old maize from a previous season, whose viability is 45 %. How many kg of seed should he/she plant on a farm of 10 ha?

If he had paid E20.00/kg of seed, how much will the seeds for the 10 ha cost?

(14 Marks)
[28 Marks]

QUESTION 2
(THIS IS ALSO A COMPULSORY QUESTION)

Explain the following terms. Give examples to illustrate your answers, where necessary. Each question carries four marks.

- (a) Ideal characteristics of an agroforestry tree
- (b) Seed viability tests
- (c) Stages of on-farm trials
- (d) Seed health
- (e) Methods of determining seed moisture content in crops
- (f) Methods of applying fertilisers to crops
- (g) Organic fertilisers

[28 Marks]

QUESTION 3

Discuss "Cropping Systems"

[22 Marks]

QUESTION 4

Distinguish between the following terms. Use examples and/or diagrams to illustrate your answers.

- (a) Top dressing fertiliser and side dressing fertiliser
- (b) Primary and secondary yield components (3 Marks)
- (c) Cropping system and farming system (4 Marks)
- (d) Efficient nodulation and effective nodulation (3 Marks)
- (e) Effective tillers and non-effective tillers in rice (4 Marks)
- (f) Relay intercropping and catch crop (4Marks)

(4 Marks)

QUESTION 5

[22 Marks]

Discuss on how crop yields can be increased in Swaziland

[22 Marks]