



2ND SEMESTER 2011/2012

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: B.Sc. IN AGRICULTURAL & BIOSYSTEMS ENGINEERING
YEAR 1
B.Sc. IN AGRICULTURAL ECONOMICS AND AGRIBUSINESS
MANAGEMENT YEAR 1
B.Sc. IN AGRICULTURAL EDUCATION YEAR 1
B.Sc. IN AGRONOMY YEAR 1
B.Sc. IN ANIMAL SCIENCE YEAR 1
B.Sc. IN CONSUMER SCIENCE YEAR 1
B.Sc. IN CONSUMER SCIENCE EDUCATION YEAR 1
B.Sc. IN FOOD SCIENCE, NUTRITION & TECHNOLOGY
YEAR 1
B.Sc. IN HORTICULTURE YEAR 1
B.Sc. IN TEXTILE AND APPAREL DESIGN & MANAGEMENT
YEAR 1

COURSE CODE: CP 102

TITLE OF PAPER: BOTANY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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

QUESTION 1

Write short notes on the following modified organs of the shoot system of angiosperms:

- a) **Stolon** (5 Marks)
- b) **Rhizomes** (5 Marks)
- c) **Bulbs** (5 Marks)
- d) **Tubers** (5 Marks)
- e) **Adventitious roots** (5 Marks)

[25 MARKS]

QUESTION 2

- a) With an aid of a well labelled diagram, fully describe the **four (4)** external regions of primary roots. (20 Marks)
- b) In terms of vascular tissues, indicate the **main differences** between monocotyledonous and dicotyledonous primary roots. (5 Marks)

[25 MARKS]

QUESTION 3

In botanical terms, what is a fruit? Give five (5) **different** types of fruits and two (2) examples of **fruits under** each type.

[25 MARKS]

QUESTION 4

Write short notes on the following terms **related to plant taxonomy**.

- a) Carl Linnaeus (1707-1778) (5 Marks)
- b) The ICBN (5 Marks)
- c) **Phylogenetic classification system** (5 Marks)
- d) **Class Liliopsida** (5 Marks)
- e) **Sub-families of the Family Rosaceae** (5 Marks)

[25 MARKS]

QUESTION 5

Give the Family and botanical names of the following cultivated plants.

- a) Cucumber (5 Marks)
- b) Garlic (5 Marks)
- c) Alfalfa (5 Marks)
- d) Cotton (5 Marks)
- e) Cowpeas (5 Marks)

[25 MARKS]