



2ND SEMESTER 2012/2013

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**UNIVERSITY OF SWAZILAND
SUPPLEMENTARY PAPER**

PROGRAMMES: **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 QUESTIONS**

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

QUESTION 1

With the aid of a well labelled diagram, describe in detail the **two (2)** morphological systems forming the body of angiosperms. Your answer should also include **three (3)** functions of each of the morphological systems. **[25 MARKS]**

QUESTION 2

- a) Compare and contrast the anatomical and morphological features of a monocotyledonous and dicotyledonous primary stem. (12 Marks)
- b) Name the **two (2)** primary tissues produced by the procambium in stems of angiosperms. Your answer should also include the functions of these tissues in plant growth and development. (8 Marks)
- c) 'Vascular bundles in primary stems of monocots are closed'. In botanical terms, explain the meaning of this statement. (5 Marks)
- [25 MARKS]**

QUESTION 3

- a) Give two (2) examples of fruits under the following types of fruits;
- i. Hesperidium (4 Marks)
 - ii. Pepo (4 Marks)
 - iii. Caryopsis (4 Marks)
 - iv. Legume (4 Marks)
- b) In botanical terms, what is the difference between a fruit and a vegetable? (5 Marks)
- [25 MARKS]**

QUESTION 4

Discuss the advantages and disadvantages of using botanical names in botanical studies. **[25 MARKS]**

QUESTION 5

Give common and botanical names of **two (2)** cultivated plants in each of the following plant Families;

- a) Euphorbiaceae (5 Marks)
 - b) Rosaceae (5 Marks)
 - c) Alliaceae (5 Marks)
 - d) Asteraceae (5 Marks)
 - e) Cucurbitaceae (5 Marks)
- [25 MARKS]**