



2<sup>ND</sup> SEMESTER 2014/2015

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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMMES:**

- B.SC. IN AGRICULTURAL AND BIOSYSTEMS ENGINEERING YEAR 1**
- B.SC. IN AGRICULTURAL ECONOMICS AND AGRIBUSSINESS 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 ANIMAL SCIENCE (DAIRY OPTION) YEAR 1**
- B.SC. IN CONSUMER SCIENCE YEAR 1**
- B.SC. IN CONSUMER SCIENCE EDUCATION YEAR 1**
- B.SC. IN FOOD SCIENCE, NUTRITION AND TECHNOLOGY YEAR 1**
- B.SC. IN HORTICULTURE YEAR 1**
- B.SC. IN TEXTILES, APPAREL DESIGN AND MANAGEMENT**

**COURSE CODE: CP 102**

**TITLE OF PAPER: BOTANY**

**TIME ALLOWED: TWO (2) HOURS**

**INSTRUCTIONS: ANSWER ALL QUESTIONS**

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

**QUESTION 1**

Describe the two types of organs found in the body of angiosperms. Your answer must also include three (3) examples under each organ and their functions in plant growth and development. **[25 MARKS]**

**QUESTION 2**

Describe the non - meristematic tissues in angiosperms and their functions in plant growth and development. **[25 MARKS]**

**QUESTION 3**

Write short notes on the following terms related to secondary growth in angiosperms;

- a) Phelloderm (5 Marks)
  - b) Periderm (5 Marks)
  - c) Phellem (5 Marks)
  - d) Phellogen (5 Marks)
  - e) Annual growth rings (5 Marks)
- [25 MARKS]**

**QUESTION 4**

- a) Give the Family name, genus and species of the following cultivated plants;

Common name	Family	Genus	Species
i) Garden peas			
ii) Sunflower			
iii) Alfalfa			
iv) Pepper			
v) Rape			
vi) Cassava			
vii) Melon			

(21 Marks)

- b) What was the contribution of Carl Linnaeus (1707 - 1778) in botany? (4 Marks)

**[25 MARKS]**