



**2<sup>ND</sup> SEMESTER 2010/2011**

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**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

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CHIEF INVIGILATOR**

**QUESTION 1**

Describe in details the two systems of the body of angiosperms. Your answer should also highlight why the two systems depend on each other for survival. (25 MARKS)

**QUESTION 2**

- a) Compare and contrast the anatomical and morphological features of a monocotyledonous and dicotyledonous leaf. (20 MARKS)
- b) 'Vascular bundles in leaves are closed'. Explain this statement. (5 MARKS)
- [25 MARKS]

**QUESTION 3**

- a) Discuss double fertilization in angiosperms and its relevance to seed and fruit formation. (15 MARKS)
- b) List the five (5) different types of fleshy fruits and give one (1) example under each type. (10 MARKS)
- [25 MARKS]

**QUESTION 4**

Name five (5) crop species belonging to the family Solanaceae. Your answer should include their common names, scientific names, as well as their uses. (25 MARKS)

**QUESTION 5**

- a) Give the botanical names of the following cultivated plants: 2 MARKS EACH= (20 MARKS)
- i. Cabbage
  - ii. Spinach
  - iii. Banana
  - iv. Orange
  - v. Grape fruit
  - vi. Sugarcane
  - vii. Sorghum
  - viii. Cotton
  - ix. Wheat
  - x. Sweetpotatoes
- b) What was the contribution of Carl Linnaeus (1707-1778) in botany? (5 MARKS)
- [25 MARKS]