



2ND SEMESTER 2007/2008

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION

PROGRAMME: B.Sc. AGRICULTURAL EDUCATION YEAR 1
B.Sc. AGRICULTURAL ECONOMICS AND MANAGEMENT
YEAR 1
B.Sc. AGRONOMY YEAR 1
B.Sc. ANIMAL SCIENCE YEAR 1
B.Sc. HOME ECONOMICS YEAR 1
B.Sc. HOME ECONOMICS EDUCATION YEAR 1
B.Sc. FOOD SCIENCE , NUTRITION & TECHNOLOGY YEAR 1
B.Sc. TEXTILE AND APPAREL DESIGN & MANAGEMENT
YEAR 1
B.Sc. HORTICULTURE YEAR 1
B.Sc. LAND AND WATER 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 about the importance of the following physiological processes in plant growth and development.

- a. Photosynthesis
- b. Respiration
- c. Transpiration
- d. Osmosis
- e. Ascent of sap

[25 marks]

QUESTION 2

Name five crop species belonging to the sub-family Papilionoideae under the family Fabaceae by their common names, scientific names, as well as their uses.

[25 marks]

QUESTION 3

The family Zingiberaceae is known for crop plants that produce spices of economic value. Name the crop plants by common and scientific names as well as their uses.

[25 marks]

QUESTION 4

List macro-and micronutrients and indicate their functions in plant growth and development.

[25 marks]

QUESTION 5

What are the factors that affect the rate of transpiration and photosynthesis?

[25 marks]