

2ND SEMESTER 2015/2016

PAGE 1 0F 2

UNIVERSITY OF SWAZILAND

SUPPLIMENTARY EXAMINATION PAPER

PROGRAMMES:

B.SC. IN AGRICULTURAL AND 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 ANIMAL SCIENCE (DAIRY) 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 YEAR 1

COURSE CODE:

CPR 104

TITLE OF PAPER:

BOTANY

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER QUESTION ONE (1) AND ANY OTHER THREE

(3) QUESTIONS OF YOUR CHOICE

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

2ND SEMESTER 2015/2016

PAGE 1 0F 2

QUESTION 1 (COMPULSORY QUESTION)

Describe the following terms in relation to the morphology of angiosperms;

a)	Internodes	(2 marks)
b)	Axillary bud	(2 marks)
c)	Simple leaf	(2 marks)
d)	Compound leaf	(2 marks)
e)	Phyllotaxy	(3 marks)
f)	Stolons	(2 marks)
g)	Bulbs	(2 marks)
h)	Corolla	(2 marks)
i)	Calyx	(2 marks)
j)	Carpel	(2 marks)
k)	Locule	(2 marks)
1)	Stamen	(2 marks)
		[25 MARKS]

QUESTION 2

- a) List **any six (6)** cell organelles in plant cells and state their main functions in plant growth and development. (13 marks)
- b) Discuss the structure of the cell wall in plants and explain how communication between cells may take place. Support your answer with a well labelled diagram. (12 marks)

 [25 MARKS]

QUESTION 3

Compare and contrast primary and secondary growth in angiosperms. In each growth pattern, indicate all the tissues and cells involved. [25 MARKS]

QUESTION 4

In a tabular format, describe the main morphological and anatomical differences between dorsiventral and isobilateral leaves. [25 MARKS]

QUESTION 5

Write short notes on the following terms with relevant examples;

a)	The binomial nomenclature	(5 marks)
b)	Phylum Magnoliophyta	(6 marks)
c)	Advantages of using botanical names	(14 marks)

[25 MARKS]