

2ND SEMESTER 2011/2012

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UNIVERSITY OF SWAZILAND FINAL 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 QUESTIONS

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COURSE CODE: CP 102(M) 2011/2012

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QUESTION 1

Give the two (2) types of **organs** found in the body of angiosperms. Your answer must also include the various examples under each type and functions.

[25 MARKS]

QUESTION 2

Meristems are very important in plant growth and development. Define the term "meristem" and discuss the role of the apical meristems in the formation of essential plant tissues and their cells.

[25 MARKS]

QUESTION 3

Write short notes on the following terms related to secondary growth in woody dicotyledonous angiosperms:

a)	Secondary xylem	(5 Marks)
b)	Secondary phloem	(5 Marks)
c)	Vascular cambium	(5 Marks)
d)	Periderm	(5 Marks)
e)	Annual growth rings	(5 Marks)
	-	[25 MARKS]

QUESTION 4

a)	Define binomial nomenclature and outline its advantages in botanical studies.	(9 Marks)
b)	Give a complete scientific classification of the following cultivated plants within	the Plant
· ·	Vinadom	

Kingdom.	
i. Rice	(8 Marks)
ii. Groundnut	(8 Marks)
	125 MARKSI

QUESTION 5

Give botanical and common names of any two (2) useful plants in the following plant Families.

a)	Alliaceae	(5 Marks)
b)	Rosaceae subfamily Maloideae	(5 Marks)
c)	Solanaceae	(5 Marks)
d)	Euphorbiaceae	(5 Marks)
e)	Malvaceae	(5 Marks)
		[25 MARKS]