

2ND SEM. 2015/2016

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN HORTICULTURE YEAR I &

BACHELOR OF SCIENCE IN HORTICULTURE YEAR IV

COURSE CODE:

HRT102 / HORT 405

TITLE OF PAPER:

ORGANIC FARMING

TIME ALLOWED:

TWO [2] HOURS

INSTRUCTIONS:

ANSWER ANY FOUR (4) QUESTIONS

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

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

a) Define crop rotation.b) Describe the factors to consider when planning a crop rotation system.c) Provide a typical example of a 3-year crop rotation plan.	(5 marks) (10 marks) (10 marks)
	[25 MARKS]

QUESTION 2

Discuss the principles of organic agriculture under the following:

b) c)	The principle of health. The principle of ecology. The principle of fairness. The principle of care.	(7 marks) (8 marks) (5 marks) (5 marks) [25 MARKS]
		[25 MARKS]

QUESTION 3

a)	Give reasons why	'certified organic food'	is more expensive than	'conventional food'.	
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b)	Discus	ss the environmental benefits of organic agriculture as follows;	(7 marks)
	i) ii) iii)	Sustainability over the long term. Water. Soil.	(5 marks) (5 marks) (8 marks) [25 MARKS]

QUESTION 4

a) Distinguish between ''natural'' and ''organic foods''.b) Discuss fertilization and crop protection in organic agriculture.	(10 marks) (15 marks)
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[25 MARKS]

QUESTION 5

Describe the phases of the composting process as follows:	
a) Heat phase.b) Cooling phase.	(15 marks)
c) Maturation phase.	(5 marks)
	(5 marks)
	[25 MARKS]