

2ND SEMESTER 2016/2017

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN HORTICULTURE YEAR I & BACHELOR OF SCIENCE IN HORTICULTURE

YEAR IV

COURSE CODE:

HRT 102 / 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 INVIGILATOR

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

a) Describe the potential risks related to genetically modified organisms (GMOs) under the following:

i) Potential risks related to human health.

(6 marks)

ii) Potential risks related to the environment.

(6 marks)

b) Distinguish between 'biodiversity' and 'agrobiodiversity'.

(13 marks)

[25 MARKS]

QUESTION 2

Discuss the following concepts:

a) Nature farming

(8 marks)

b) Natural farmingc) Good agricultural practices (GAP)

(8 marks)

(9 marks)

[25 MARKS]

QUESTION 3

Discuss the three ethical principles of 'permaculture' following these guidelines:

a) Care of the earth

(8 marks)

b) Care of the people

(10 marks)

c) Return of surplus to earth and people (also called "fair share") (7 marks)

[25 MARKS]

QUESTION 4

Describe the following:

a) Construction of a compost heapb) Preparation of liquid fertilizerc) Preparation of liquid manurec) Preparation of a pepper spray

(9 marks)

(5 marks)

(6 marks)

[25 MARKS]

QUESTION 5

Describe the following:

a) Synthetic mulchesb) Organic mulchesc) Green manure and cover crops

(7 marks)

(9 marks)

(9 marks)

[25 MARKS]