



2ND SEM. 2013/2014

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE
YEAR IV**

COURSE CODE: 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

Discuss the following concepts:

- a) Nature farming (8 marks)
- b) Natural farming (8 marks)
- c) Good agricultural practices (GAP) (9 marks)

[25 marks]

QUESTION 2

- a) What is a 'companion plant'? (1 marks)

Provide two (2) appropriate compatible companion plants and incompatible plants each, for the following horticultural crops to complete the chart: (24 marks)

Crop	Compatible companion	Incompatible companion
Cabbage	2 marks	2 marks
Carrot	2 marks	2 marks
English pea	2 marks	2 marks
Irish potato	2 marks	2 marks
Onion	2 marks	2 marks
Pole bean	2 marks	2 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)

QUESTION 4

Write notes on the following:

- | | |
|-------------------------------------|-----------|
| a) Construction of a compost heap | (9 marks) |
| b) Preparation of liquid fertilizer | (5 marks) |
| c) Preparation of liquid manure | (5 marks) |
| c) Preparation of a pepper spray | (6 marks) |

[25 marks]

QUESTION 5

Describe the following:

- | | |
|---------------------------------|-----------|
| a) Synthetic mulches | (7 marks) |
| b) Organic mulches | (9 marks) |
| c) Green manure and cover crops | (9 marks) |

[25 marks]