



1ST SEM 2011/12

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION

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

COURSE CODE: HORT 201

TITLE OF PAPER: PRINCIPLES OF HORTICUTLURE

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTIONS: ANSWER ANY TWO (2) QUESTIONS FROM
SECTION A AND ANY TWO (2) QUESTIONS FROM
SECTION B**

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

INSTRUCTIONS: ANSWER ANY TWO (2) QUESTIONS FROM SECTION A**SECTION A****QUESTION 1**

Describe the following concepts in relation to sustainable horticulture:

- a) Biodynamic horticulture (5 marks)
- b) Biological farming (5 marks)
- c) Biotechnology (5 marks)
- d) Cite the potential risks related to GMOs as identified by The Union of Concerned Scientists' following these guidelines:
 - i) Risks related to human health (5 marks)
 - ii) Risks related to the environment. (5 marks)

[25 marks]

QUESTION 2

- a) Describe the beneficial influences of good agricultural practices (GAP) (5 marks)
- b) Discuss GAP in relation integrated pest management (IPM) (20 marks)

[25 marks]

QUESTION 3

- a) Define 'world vision' and its role in sustainable development (5 marks)
- b) State the 'vision' and 'mission' statements of NAMBOARD (5 marks)
- c) Define FANRPAN
- d) What are the characteristics of the indigenous trees used by 'Swazi Secrets' for their oil products? (5 marks)
- e) What are the properties of the marula (*Sclerocarya caffra*) oil produced at Swazi Secrets? (5 marks)

[25 marks]

INSTRUCTIONS: ANSWER ANY TWO (2) QUESTIONS FROM THIS SECTION

SECTION B

QUESTION 4

- a) What are the characteristics of Plantation Agriculture (5 marks)
 - b) What is the purpose of establishing a greenhouse in horticulture? (5 marks)
 - c) What are the physiological responses of plants to pruning? (5 marks)
 - d) What is mulching and why is this practice important in horticulture? (5 marks)
 - e) What are the benefits of green manuring? (5 marks)
- [25 marks]**

QUESTION 5

- a) What is sustainable horticulture? (5 marks)
 - b) Discuss the key elements considered in management strategies for sustainable horticulture (20 marks)
- [25 marks]**

QUESTION 6

Discuss compost making

[25 marks]