



2ND SEM. 2008/2009

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE
YEAR 4**

COURSE CODE: HORT 407

TITLE OF PAPER: HYDROPONICS

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

Question 1

Describe briefly the following hydroponics methods:

- (a) Ebb and flow [5 marks]
 - (b) Sub irrigation [5 marks]
 - (c) Grow bag technique [5 marks]
 - (d) Nutrient Film Technique [5 marks]
 - (e) Wick system [5 marks]
- [25 marks]**

Question 2

Describe the care and maintenance of hydroponics systems.

[25 marks]

Question 3

Describe the different growing media used in hydroponics production.

[25 marks]

Question 4

Discuss the feeding and watering of hydroponics plants.

[25 marks]

Question 5

- (a) What are the growth requirements for hydroponics plants? [15 marks]
 - (b) Describe the deficiency symptoms of macro nutrients in hydroponics plants. [10 marks]
- [25 marks]**