



2ND SEMESTER 2016/2017

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN HORTICULTURE

YEAR IV

COURSE CODE:

HORT 407

TITLE OF PAPER:

HYDROPONICS

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTION:

ANSWER ANY FOUR (4) QUESTIONS

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THE CHIEF INVIGILATOR

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

Question 1

- (a) Discuss the nutrient application and watering of hydroponics plants. [13 marks]
 - (b) What are the challenges facing hydroponics producers worldwide? [12 marks]
- [25 marks]

Question 2

Describe the planning sequence for commercial hydroponics production. [25 marks]

Question 3

Describe the following:

- (a) Grow bag technique [5 marks]
 - (b) Nutrient film technique [5 marks]
 - (c) Flood and drain hydroponics system [5 marks]
 - (d) Criteria for nutrient essentiality [5 marks]
 - (e) Aeroponics [5 marks]
- [25 marks]

Question 4

Discuss the merits and demerits of hydroponics. [25 marks]

Question 5

- (a) What are the factors affecting the choice of media for hydroponics production [10 marks]
 - (b) What are the causes of failure in commercial hydroponics production? [15 marks]
- [25 marks]