



RE-SIT/SUPPLEMENTARY 2018/2019

PAGE 1 OF 3

UNIVERSITY OF ESWATINI

RE-SIT/SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE 4

COURSE CODE: HRT406/HORT 407

TITLE OF PAPER: HYDROPONICS

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

Question 1

- a) Describe the requirements for a commercial hydroponics production unit. [8]
 - b) Discuss how you can adjust pH in a hydroponics production unit. [17]
- [25 marks]

Question 2

- a) What are the differences between hydroponic vegetable production and conventional production? [15]
 - b) Discuss the requirements for plant growth in hydroponics unit. [10]
- [25 marks]

Question 3

Discuss closed hydroponics systems.

[25 marks]

Question 4

- a) Discuss the growth media characteristics in hydroponics crop production. [20]
 - b) With the aid of examples, discuss liquid and aggregate hydroponics systems. [5]
- [25 marks]

Question 5

- a) What are the advantages and disadvantages of hydroponics crop production? [20]
- b) What are the use of media in hydroponics systems? [5]

[25 marks]