



2ND SEMESTER 2017/18

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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

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INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS**Question 1**

- a) With the aid of examples describe these terms:
- i. Inert media [2]
 - ii. Liquid hydroponics [2]
 - iii. Aggregate hydroponics [2]
 - iv. Open systems of hydroponics [2]
 - v. Closed systems of hydroponics [2]
- b) What are the differences between hydroponic vegetable production and soil production? [15]

[25 marks]

Question 2

Discuss the importance of growth media characteristics in aggregate hydroponics.

[25 marks]

Question 3

After attending a workshop on hydroponics production Mr. Khumalo lost his hydroponics production manual. Explain to him the steps involved in mixing the nutrient solution in bulk tank system (one tank only) and in adjusting the pH of the nutrient solution.

[25 marks]

Question 4

Discuss the proper care and maintenance of hydroponics system for successful of crop production.

[25 marks]

Question 5

Discuss hydroponics tomato production.

[25 marks]