



2nd SEMESTER 2015/2016

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE
YEAR III

COURSE CODE: HORT 302

TITLE OF PAPER: GREENHOUSE MANAGEMENT AND UTILIZATION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

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

ANSWER ANY FOUR (4) QUESTIONS

Question 1

- (a) What is a greenhouse? [5 Marks]
 - (b) What is the purpose of establishing a greenhouse in horticultural enterprise? [8Marks]
 - (c) List the uses of a greenhouse in horticultural enterprise? [12 Marks]
- [25 marks]**

Question 2

Discuss the operations and management of Environment Controlled Computers (ECC) in a greenhouse. [25 marks]

Question 3

Describe the maintenance operations you will employ as the manager of HLONGWE AMAZING GREENHOUSE Inc., Swaziland. [25 marks]

Question 4

What factors will you consider before choosing an area for a greenhouse enterprise? [25 marks]

Question 5

You have a 1:300 injector in a greenhouse and want to use potassium nitrate (13%N-0%P₂O₅-44%K₂O) and calcium nitrate (15.5%N-0%P₂O₅-0%K₂O) to supply 325 ppm of N and K with each watering. How many **grams** of each fertilizer would you weigh out to make **1-liter** of concentrate? (Given %K and %P equals **1.2** and **2.3** of K₂O and P₂O₅ respectively, and **10** as the conversion constant C).

[25 Marks]