



**1<sup>ST</sup> SEMESTER 2017/2018**

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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

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

**COURSE CODE: HORT 404**

**TITLE OF PAPER: TEMPERATE FRUIT AND NUT PRODUCTION**

**TIME ALLOWED: TWO [2] HOURS**

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

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

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

**QUESTION 1**

Provide guideline for the production of macadamia nuts (*Macadamia integrifolia* L) under the following:

- a) Climate and propagation (15 marks)
- b) Soils and culture conditions (10 marks)

**[25 marks]**

**QUESTION 2**

- a) Discuss the significance of climate change on the chilling requirements of temperate fruits (18 marks)
- b) List some low-chill cultivars of a selected fruit species that have been certified for Southern African conditions (7 marks)

**[25 marks]**

**QUESTION 3**

Explain the following:

- a) Square planting system (9 marks)
- b) Quincunx (9 marks)
- c) Hexagonal system (7 marks)

**[25 marks]**

**QUESTION 4**

Explain the following:

- a) Open centre (8 marks)
- b) Central leader (8 marks)
- c) Modified central leader (7 marks)

**[25 marks]**

**QUESTION 5**

Describe the production of raspberry (*Morus spp* L) under the following:

- a) Climate and soils (7 marks)
- b) Primocanes (9 marks)
- c) Floricanes (9 marks)

[25 marks]