



**1<sup>ST</sup> SEM. 2014/2015**

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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**

**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**

Provide guidelines for the production of peaches (*Prunus persica* L) under the following:

- a) Soil and site requirements (6 marks)
- b) Land preparation and planting (10 marks)
- c) Irrigation (5 marks)
- d) Weed control (4 marks)

**[25 marks]**

**QUESTION 2**

Describe the post-harvest handling of cashew nuts using the following guidelines:

- a) Drying and shelling (15 marks)
- b) Removal of the testa (4 marks)
- c) Grading and packaging (6 marks)

**[25 marks]**

**QUESTION 3**

Discuss the production of blueberry (*Vaccinium* spp) using the following guidelines:

- a) Climatic requirements (5 marks)
- b) Fertilization (10 marks)
- c) Irrigation (8 marks)
- d) Time of planting (2 marks)

**[25 marks]**

**QUESTION 4**

Discuss the production of macadamia nuts (*Macadamia integrifolia* L) under the following:

- a) Plant spacing (9 marks)
- b) Fertilization (16 marks)

**[25 marks]**

**QUESTION 5**

a) Define the following terms:

- i) Disbudding (1 mark)
- ii) Pollarding (1 mark)
- iii) Pinching (1 mark)
- iv) Root pruning (1 mark)

- b) Describe the purposes of heading back and thinning out cuts (7 marks)
- c) What are the objectives and effects of tree pruning ? (14 marks)

**[25 marks]**