

UF DAGRI PAST PAPERS.



Sir Arthur Lewis Community College
Division of Agriculture

2004/2005 Certificate Programme
End of Semester II Examination



Course: Crop Production & Technology (CPT111)

Date: May 2005

Duration: 2 ½ hours

Answer Any Five (5) Questions

1. Crops can be grown from either seeds or by vegetative propagation:
 - (a) Discuss the advantages and disadvantages of growing crops from (i) seeds, (ii) by vegetative means. (8 marks)
 - (b) Describe, using suitable diagrams where applicable, the technique of grafting, budding or layering. (5 marks)
 - (c) Good land preparation is critical to good crop production. Discuss. (7 marks)

2.
 - (a) Define the phrase “cropping schedule” and explain how it may be beneficial to the farmers. (5 marks)
 - (b) What do you understand by the term “market” and why is it important to know your “market”? (5 marks)
 - (c) Discuss three activities you would undertake to maintain market quality. (10 marks)

3. Environmental factor may affect crop production. Discuss how these factors may affect growth and development of a crop. (20 marks)

4.
 - (a) How does soil fertility impact on crop production. (5 marks)
 - (b) Define the term fertilizer and state the two broad categories under which they fall, giving examples of each category. (10 marks)
 - (c) Discuss two ways how soils may lose their fertility. (5 marks)

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5. Weeds usually have adverse effects on crops. **(20 marks)**
- (a) Explain how weeds can affect crop growth and production. **(8 marks)**
 - (b) List the methods of weed control and discuss the advantage(s) and disadvantage(s) of any one method you have identified. **(7 marks)**
 - (c) Discuss how insects can cause losses in crop production. **(5 marks)**
6. (a) State the family genus and species of any five crops grown on the College Farm. **(5 marks)**
- (b) Write short notes (discuss) on:
 - (i) crop rotation **(3 marks)**
 - (ii) mulching **(3 marks)**
 - (iii) plant spacing. **(3 marks)**
 - (c) List three methods of measuring soil moisture content and how explain briefly how any one method works. **(6 marks)**
7. (a) State the methods of harvesting. Give one advantage and one disadvantage of each method identified. **(8 marks)**
- (b) Discuss two factors that would influence your decision to harvest. **(4 marks)**
 - (c) List three major components of good storage and explain one way how each component can reduce post-harvest losses. **(8 marks)**
8. You have grown a crop. Discuss three problems you may have encountered and make suggestion how these problems may be avoided or remedied. **(20 marks)**

~~~~~End of Examination~~~~~

