

## UP DAGRI PAST PAPERS.

## Sir Arthur Lewis Community College Division of Agriculture

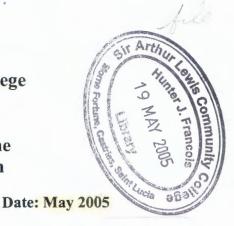
## 2004/2005 Certificate Programme End of Semester II Examination

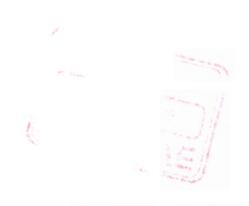
Course: Crop Production & Technology (CPT111)

Duration: 2 1/2 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 loose 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 <u>any</u> 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 <u>one</u> method works. (6 marks)
- 7. (a) State the methods of harvesting. Give <u>one</u> advantage and <u>one</u> 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----



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