

SIR ATHUR LEWIS COMMUNITY COLLEGE
DIVISION OF AGRICULTURE
Associate Degree/Diploma in Agriculture
Horticultural Crops Agronomy - HCA521
Academic Year 2001/2002 End of Semester I Exam

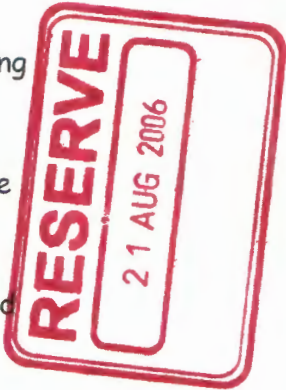


Time: 2 1/2 hours

Date: December 2001

Answer any four (4) questions.

1.
 - a) Discuss the factors that influence growth and development of a named crop in particular location. (10 marks)
 - b) What effects does soil temperature have in the vegetable ecosystem? (5 marks)
 - c) What are some of the concerns with using animal manures for growing vegetables? (10 marks)
2.
 - a) What role does the market play in determining the crops a vegetable farmer should grow? (5 marks)
 - b) Why knowing the cultivar is important in growing vegetable crops and what factors must be considered in choosing a vegetable cultivar to grow? (10 marks)
 - c) Why are some vegetables established in the field using transplants instead of direct seeding? (10 marks)
3.
 - a) Discuss the main ecological factors, which affect the growth of Brassica crops. (10 marks)
 - b) What do you consider to be the most serious disease of Brassica crop? Discuss. (5 marks)
 - c) List two cultivars of cabbage and their characteristics that are compatible in St. Lucia. (10 marks)
4. Discuss the agronomic and economic principles, which guide selection of crops in a rotation system. (25 marks)
5.
 - a) Insects can be both beneficial and harmful in the crop production cycle. Discuss (i) two ways in which they can be beneficial
(ii) two ways in which they can be harmful. (8 marks)
 - b) Explain what you understand by the term
 - (i) Economic level of infestation.
 - (ii) Integrated pest management (8 marks)
 - c) Discuss some general control measures to reduce insect infestations. (9 marks)
6. Prepare a production calendar for a named root crop. Provide specifics on cultivar choice propagation and preparation of planting material field preparation. Spacing weed control fertilizer application pest and disease yield. (25 marks)





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ASSOCIATE DEGREE/DIPLOMA PROGRAMME YEAR 2

1999/2000 ACADEMIC YEAR
SUPPLEMENTAL EXAMINATION

HORTICULTURAL CROPS AGRONOMY – HCA521

AUGUST 2000

TIME: 2 1/2 HOURS

ANSWER ALL QUESTIONS.

1. A farmer wishes to go into vegetable production and is seeking your advice. What would you tell him with regards to crop selection, ecological requirements of crop selected agronomical practices of the crop selected and marketing of the crop?
(25 marks)

2. (a) What is the significance of a cropping schedule? (5 marks)

(b) Write up a cropping schedule for a named crop giving specific dates of activities and quantities of chemicals to be used.
(15 marks)

(c) Discuss three activities that should be undertaken to reduce post-harvest losses in vegetables.
(5 marks)

3. The use of organic matter in vegetable production has distinct advantages and disadvantages. Discuss
(25 marks)

4. Strict and timely pest control programmes are critical to the success of vegetable production.

(a) Discuss the different methods of pest control available to the farmer.
(10 marks)

(b) Discuss three factors that should be considered when selecting a method of pest control.
(5 marks)

(c) Give specific information on how you would control a major pest and disease of a named crop.
(10 marks)