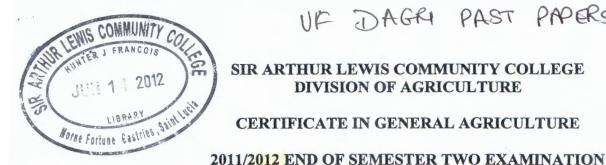
## UF DAGRI PAST



## SIR ARTHUR LEWIS COMMUNITY COLLEGE DIVISION OF AGRICULTURE

## CERTIFICATE IN GENERAL AGRICULTURE



COURSE: CROP PRODUCTION & TECHNOLOGY - CPT111

DATE: 23rd APRIL 2012

DURATION: 2 1/2 Hours.

## Answer any four (4) questions.

- 1. i. What is a crop? (1) (a)
  - ii. Discuss any three factors which the farmer must consider when selecting a crop to be grown. (3)
  - Explain three ways a cropping schedule may be beneficial to a farmer. (6) (b)
  - Name three farming systems other than organic farming commonly practiced (c) i. in the Caribbean and state one way that each differs from the other. (6)
    - State two ways in which organic farming is different from the systems of farming commonly practiced today. (4)
  - Name four factors that influence the spacing of a crop and state how any one factor (d) may affect production. (5)
- Pests and diseases impact significantly on crop production. 2.
  - State three ways how weeds affect crop production. (6) i.
    - List the methods of weed control and state two considerations when selecting ii. a particular method of control. (6)
  - (b) Insects make up the largest group of crop pests.
    - Name the three ways insects feed. (3) i.
    - ii. Draw a large labeled diagram of a common insect pest in agriculture. (3)
    - iii. List the characteristics of insects. (5)
  - Name two micro-organisms that cause plant diseases. (2) (c)
- Discuss any three methods of measuring the moisture of the soil. (6) 3. (a)
  - (b) Explain how water stress may affect crop growth. (6)
  - List any three methods of irrigation commonly used in the Caribbean. (3) (c) i.
    - Give one advantage and one disadvantage of each of the methods named in ii. (c)i. (6)
  - List four ways in which a farmer can conserve water for farm use. (4) (d)
- Define soil fertility. (1) 4. (a) i.
  - Discuss two ways in which soil may lose its fertility. (2) ii.
  - Discuss two ways in which soil may regain its fertility. (2) iii.
  - Explain to a farmer two benefits to be gained from mulching. (4) (b) i.
    - List two types of material that may be used as mulch. (2) ii.
  - Discuss three benefits of good land preparation. (9) (c)
  - List the stages of a crop production cycle. (5) (d)

- 5. (a) i. List the methods of harvesting. (2)
  ii. Name three factors that a farmer must consider when selecting a method of harvesting (3)
  - (b) Proper storage is critical to ensuring that spoilage of produce is minimal. Discuss the major components of proper storage. (9)
  - (c) i. State the main objectives of post-harvest technology. (2)
    - ii. Explain how you would achieve the objectives stated in (c) i. (4)
  - (d) Discuss three benefits of record keeping. (5)

"""END OF EXAM""