SIR ARTHUR LEWIS COMMUITY COLLEGE
Division of Agriculture

END OF SEMESTER TWO EXAMINATION – MAY 2015/2016

PROGRAMME TITLE	:	General Agriculture – Certificate
COURSE TITLE	:	Crop Production and Technology
COURSE CODE	:	CPT111
DATE	:	4th May 2016
TIME	:	9:00 a.m.
DURATION	:	2 ½ hours
ROOM	:	Room 1 & 2
INVIGILATOR(S)	:	All Lecturers
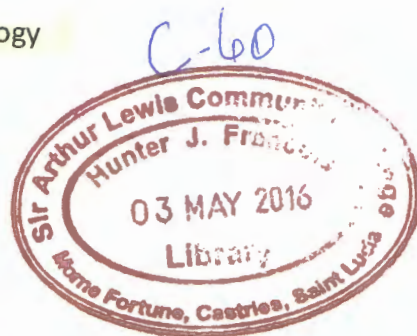
INSTRUCTIONS:

➢ ANSWER **ANY FOUR QUESTIONS**.

➢ BEGIN EACH QUESTION ON A NEW SHEET

1. (a) Define the terms "crop" and "crop production". (5 marks)

   (b) Discuss three environmental factors that affect crop production. (6 marks)

   (c) Explain why market, capital and expertise are important factors to consider before even going into production. (9 marks)

2. (a) State three objectives of good land preparation. (6 marks)

   (b) Compare the physical and chemical properties of the three main soil types. Use a table format. (10 marks)

   (c) Explain why drains are an important component of land preparation. (4 marks)

3. (a) State three reasons why water is important to crops. (3 marks)

   (b) List four methods of testing for soil moisture and explain how any two methods named work. (8 marks)

   (a) Name three methods of irrigation and give one advantage and one disadvantage of each method named. (9 marks)

4. Pests including weeds can have detrimental effects on crop yield

   (a) (i) Define the term "weed". (1 mark)

       (ii) List four methods of weed control. (4 marks)

       (iii) Explain two ways weeds affect crop growth. (4 marks)

   (b) (i) Insects are a major group of crop pest. Categorise insect pest s based on their feeding methods. (3 marks)

       (ii) Suggest to a farmer three methods of controlling insect pests, apart from chemical method. (6 marks)

   (c) Explain what is meant by integrated pest management. (2 marks)

5. The harvest stage is the most rewarding part of the crop cycle.

   (a) (i) Define the term "yield". (1 mark)

       (ii) Name the methods of harvest and state two reasons for selecting a particular method. (6 marks)

   (b) State the two major objectives of post harvest technology. (4 marks)

   (c) Discuss three ways the objectives in (b) can be achieved. (9 marks)

END OF TEST