



SIR ARTHUR LEWIS COMMUNITY COLLEGE  
DIVISION OF AGRICULTURE

CERTIFICATE IN GENERAL AGRICULTURE

2010/11 END OF SEMESTER TWO EXAMINATION

COURSE: **CROP PRODUCTION AND TECHNOLOGY (CPTIII)**

DATE: **MAY 2011**

DURATION: 2 ½ HOURS

ANSWER ANY FOUR QUESTIONS. BEGIN EACH QUESTION ON A NEW SHEET.

1. (a) Define "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)  
(c) 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. Identify insect pests based on their feeding habits. (3 marks)  
(ii) Suggest to a farmer three ways, apart from chemical application, how to control insect pests. (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 how these objectives in (b) can be achieved. (9 marks)

END OF TEST