SIR ARTHUR LEWIS COMMUNITY COLLEGE
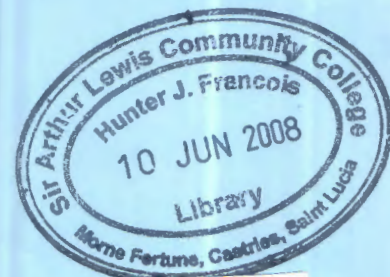**DIVISION OF AGRICULTURE**

CERTIFICATE IN GENERAL AGRICULTURE

2007/08 END OF SEMESTER TWO EXAMINATION

#C27

COURSE: CROP PRODUCTION & TECHNOLOGY – CPT111   DATE: APRIL 2008

DURATION: 2 Hours 15 Min.

Answer any four (4) questions.

1.　(a)　List the stages in the production cycle of a crop.　**(5)**

　　(b)　Choose any **two** stages in the crop production cycle and explain how they can affect the yield.　**(10)**

　　(c)　What is a cropping schedule?　Discuss **three** ways a cropping schedule may be beneficial to the farmer.　**(10)**

2.　(a)　Agriculture is still considered to be a laborious occupation.　Discuss **three** ways how technology can be of help in this area.　**(10)**

　　(b)　Using an example, explain what is meant by the phrase added value?　**(10)**

　　(c)　Discuss **two** benefits of organic farming.　**(5)**

3.　(a)　List **three** environmental factors that affect crop production and explain how each factor affects production.　**(10)**

　　(b)　Why is choosing resistant or tolerant cultivars the cheapest easiest and most effective way to reduces losses due to pest and disease.　**(10)**

　　(c)　Define the term **WEED**.　How can weeds reduce the growth and yield of a crop?　**(10)**

4.　(a)　Define the term irrigation and list common methods of irrigation used.　**(5)**

　　(b)　Explain what is meant by critical period with regards to crop water use and give the critical period for **three** named crops.　**(10)**

　　(c)　Discuss **three** methods of measuring soil moisture.　**(10)**

5.　(a)　Define the term **soil fertility** and explain three ways a soil may gain fertility and **three** ways it may loose its fertility.　**(10)**

　　(b)　Discuss **three** ways how acid soils may affect crop growth and production.　**(10)**

　　(c)　Explain how chemical (in organic) fertilizer can be harmful to the environment?　**(5)**

6.　(a)　Define the term harvest (crop) and explain when and how is may be done.　**(10)**

　　(b)　Post harvest landing of produce is important to maintaining quality.　Explain **three** ways this can be achieved.　**(10)**

　　(d)　List **three** components of good storage.　**(5)**

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