



SIR ARTHUR LEWIS COMMUNITY COLLEGE
DIVISION OF AGRICULTURE

ASSOCIATE DEGREE IN GENERAL AGRICULTURE
2010/2011 ACADEMIC YEAR
END OF SEMESTER 2 EXAMS

#C46

COURSE : CROP PROTECTION (CRP212)

Date: 5th May 2011

Duration: 2 ½ Hrs.

DO (FIVE) QUESTIONS

1. (a) Define the following, (10 mks)
 - (i) Crop protection
 - (ii) Metamorphosis
 - (iii) Plant pathology
 - (iv) Plant quarantine
 - (v) Nematodes

(b) Discuss (3) three importance of pests and diseases in agriculture. (10 mks)

2. (a) Explain the term Active ingredient. (2 mks)
- (b) Identify five (5) reasons why an **inert ingredient** is included in a pesticide (10 mks)
- (c) Wettable powder (Wp) and Emulsifiable concentrates (Ec) are formulations in which pesticides are being sold. List two advantages and two disadvantages of each formulation. (8 mks)

4. (a) Farmer Brown believes his crop is being affected by fungi. Discuss the steps that should be followed in making a proper disease diagnosis. (10 mks)
- (b) (i) Identify one (1) major disease in bananas in St Lucia caused by a fungi. Include the scientific and common name. (2 mks)
- (ii) Identify (3) major symptoms of the disease mentioned in b(i). (3 mks)
- (iii) Outline an integrated pest management strategy to control this above mentioned disease. (5mks)

5. Wing shape, texture, and venation are quite distinctive among the insect taxa and are useful for identification.
 - (i) Which insect orders show the following wing modifications?
 - a. Elytra b. hemelytra c. tegmina d. halteres (4 mks)
 - (ii) Discuss the characteristics of the insect order **Coleoptera** (10 mks)
 - (iii) To which insect orders do the following insects belong? (6 mks)

Honey bees, West Indian fruit fly, Sweet potato weevil, Diamond backmoth, Cuban laurel thrips, whiteflies

6. (a) With aid of a simple diagram explain the disease triangle. (10 mks)
- (b) Explain the principle/concept of Knoch's Postulates (10 mks)