



SIR ARTHUR LEWIS COMMUNITY COLLEGE
DIVISION OF AGRICULTURE

#C53

ASSOCIATE DEGREE IN GENERAL AGRICULTURE
2012/2013 ACADEMIC YEAR
END OF SEMESTER 2 EXAMS

COURSE: CROP PROTECTION (CRP212)

DO (FIVE) QUESTIONS:

1. To date St Lucia has been affected by one species of fruit flies.
 - a). With reference to this fruit fly identify the following; (3 mks)
 - i. Common name
 - ii. Scientific name
 - iii. Order
 - b) Discuss the type of metamorphosis which occurs in this fruit fly. (2 mks)
 - c) Identify three (3) Major characteristics of the Order to which this fruit fly belongs. (5 mks)
 - d). Develop an integrated management plan for the control of this fruit fly. (10 mks)
 2. a) Define the following with respect to plant disease (6 marks)
 - i) pathogen
 - ii) blight
 - iii) resistance
 - b) Discuss the disease cycle. (10 marks)
 - c) Briefly outline the plant disease triangle concept (4 marks)
3. Farmer brown, after scouting his tomato field on a morning, noticed a few stunted plants. On uprooting such plants, he noticed the presence of root knots.
 - i. Using the scientific name, identify the nematode responsible for this damage. (2 mks)
 - ii. Explain the Baerman's method for the extraction of nematodes from the roots of plants. (8 mks)
 - iii. Explain two (2) methods used in the management and control of this nematode problem on his farm. (10ks)
4. a) Define the following terms;
 - i. Plant quarantine (2 mks)
 - ii. Plant import permit (2 mks)

- iii. Identify the legal document issued by the quarantine department which authorizes you to take fruits over to the USA? (1 mk)
- iv. **The disease Citrus greening is of major quarantine importance to St Lucia!** Give three (3) reasons why this statement is true.

(5 mks)

b.) Discuss three (3) roles of quarantine in St Lucia. (10 mks)

5. a) Define the following with respect to pesticides. (6 mks)

- i.) active ingredient
- ii.) inert ingredient
- iii.) surfactant

b.) List two (2) advantages and two (2) disadvantages of Emulsifiable **Concentrates**. (4 mks)

c.) Discuss five (5) safety precautions which should be adhered to when handling pesticides. (10 mks)

6. (a) Define the term weed. (2 mks)

(b) Give 4(four) reasons why weeds are important in agriculture. (8 mks)

(c) Discuss (4) (four) methods of weed management. (10 mks)