



SIR ARTHUR LEWIS COMMUNITY COLLEGE

DIVISION OF AGRICULTURE

GENERAL AGRICULTURE - ASSOCIATE DEGREE YR2

ACADEMIC YEAR 2013/2014

END OF SEMESTER TWO EXAMINATION



#C56

COURSE: (CRP212) CROP PROTECTION & PEST MANAGEMENT

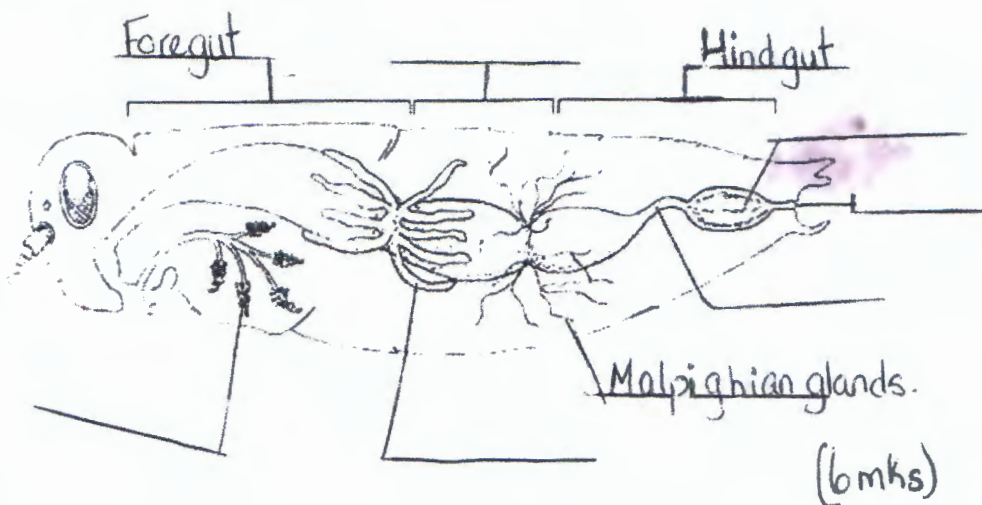
DATE: MAY 2014

TIME: 9:00 A.M.

DURATION: 2 HOURS, 30 MINUTES

DO FIVE (5) QUESTIONS:

1. a) Define the term metamorphosis. (2mks)
- b) Label the following diagram



- c) Illustrate the life cycle of a butterfly. (4mks)
  - d) Name any Four (4) Orders of insects that are classified as Agricultural Pest. (4mks)
  - e) Identify one (1) distinguishing features of each order. (4mks)
2. a) Define any Five (5) of the following:
    - (i) Integrated Pest Management (IPM) (2mks)
    - (ii) Disease (2mks)
    - (iii) Obligate parasite (2mks)
    - (iv) Infection (2mks)
    - (v) Crop protection (2mks)
    - (vi) Plant pathology (2mks)

- b) Discuss the primary events in a disease triangle. (10mks)

3. Mark was asked to examine a Banana Field. He noticed premature leaf drop, decreased vigor and yield, susceptible toppling during fructification. In the Lab, he noticed root tissue destroyed.
- a) Identify the nematode responsible for this damage. (2mks)
  - b) Explain the Baerman's method for the extraction of the nematode from the root of the plant tissue. (8mks)
  - c) Explain two (2) methods used in the management and control of this nematode problem on this Banana Field. (10mks)
4. a) Define the term weed (2mks)
- b) (i) Discuss the Four (4) methods of weed management (8mks)
  - (ii) Discuss One advantage and One disadvantage of each method named in b(i). (8mks)
  - c) State 2 ways how weeds may affect crop production. (2mks)
5. a) Define the term Plant quarantine. (2mks)
- b) Name Four (4) requirements of the plant quarantine system (4mks)
  - c) Name Four (4) Ports of entry of pest and diseases. (4mks)
  - d) Discuss Three (3) roles of quarantine in Saint Lucia. (10mks)
6. a) Discuss Five (5) important roles of a **label** on a Pesticide. (10mks)
- b) Discuss Five (5) safety precautions one should adhere to when handling pesticides. (10mks)