SIR ARTHUR LEWIS COMMUITY COLLEGE

Division of Agriculture

END OF SEMESTER TWO EXAMINATION – MAY 2015/2016

C 58

PROGRAMME TITLE	:	General Agriculture – Associate Degree – Year Two
COURSE TITLE	:	Crop Protection and Pest Management
COURSE CODE	:	CRP212
DATE	:	5th May 2016
TIME	:	9:00 a.m.
DURATION	:	2 ½ hours
ROOM	:	Room 1 and 2
INVIGILATOR(S)	:	

INSTRUCTIONS:

DO (FOUR) QUESTIONS

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1. The College Farm manager has called on you to assist with the **management of the Yellow sigatoka disease in bananas.**

   (i) Give the scientific name of this disease and the type of pathogen responsible for causing this disease. (5mks)

   (ii) Explain the concept of the disease triangle with respect to the ~~Black~~ YELLOW sigatoka. (10 mks)

   (iii) Develop an Integrated Disease Management plan for the control of this disease. (10 mks)

2. (a) Define the term "emulsifier". (1 mk)

   (b) The following is a list of pesticides found at the SALCC farm store room. Please indicate the pesticide group to which they belong; Insecticide, fungicide or herbicide.

   (Phyton, Newmectin, Triton, Gramocil, Ridomil, ~~Factac~~ FASTAC, Round up, Fusilade, Vertimec, Touchdown). (10 mks)

   (c) Discuss three (3) safety measures that must be adhered to when using pesticides. (6) mks)

   (d) **Emulsifiable concentrates (EC)** and **Wettable powders (WP)** are two types of pesticide formulations. List two (2) advantages and two (2) disadvantages of each formulation. (8 mks)

3. (a) How do you differentiate between a grass and sedge? (1 mk)

   (b) Discuss the principle of Integrated Weed Management. (10 mks)

   (c) Identify four common weeds, state their common and scientific names. (8 mks)

   (d) Explain three (3) characteristics of weeds that make them successful. (6 mks)

4. (i) The following are common insect pests found in Saint Lucia. Identify the order under which they belong; sweet potato weevil, cottony scale, corn earworm, Cocoa thrips, cotton aphid, mole cricket, citrus mealy bug, green stink bug, cabbage white butterfly, (5 mks)

   (ii) Discuss the characteristics of the Order Diptera (10 mks)

   (iii) ~~List~~ Explain 5 reasons why insects are considered" formidable". (10 mks)

5. (a) Define the term "stylet" (1 mk)

   (b) Give the common name and scientific names of a nematode species affecting i). vegetables ii. Bananas iii. Coconuts (9 mks)

   (c) Describe the signs of the damage caused by one of the nematode species identified above. (5 mks)

   (d) Explain how parasitic nematodes would affect a crop. (5) mks)

   (e) Discuss the method of extraction of plant parasitic nematodes from the soil. (5) mks)