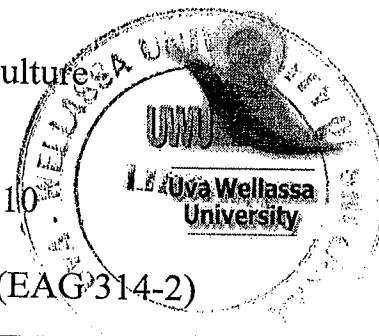


Uva Wellassa University
Faculty of Animal Science and Export Agriculture
B.Sc. in Export Agriculture



End Semester Examination June / July 2010
Year III Semester II
Pesticide Formulation and Application Technology (EAG314-2)

Instructions

Answer **any two (02)** questions.

No. of questions : Four (04)

No. of pages : Two (02)

Total marks allocated : 100%

Time : One (01) hour

Index No:

Part II

Essay

Question 1

- I. Explain the working principle of any of the following with a clearly labeled diagram of the relevant internal and external parts of the sprayer equipment.

Lever operated diaphragm pump knapsack sprayer

Or

Lever operated piston pump knapsack sprayer

(30marks)

- II. A farmer wishes to apply the herbicide Glyphosate to a 10 ha land at a dosage of 1.5 kg/ha. The farmer wishes to use the commercial product Round-up which contains 400 g of active ingredient per litre of formulation. The knapsack sprayer to be used has a capacity of 15 litres with a spray volume of 400 l/ha.

- Calculate the amount of Round-up the farmer should purchase to treat all 10 ha of land.
- Calculate the extent of land the farmer could spray using one full spray tank of the spray mixture.
- How much Round-up should be added to each spray tank in order to apply the desired dosage?
- How many full spray tanks of spray mixture are required to treat 10 ha of land?

(20marks)

Question 2

Write an essay on 'Precautions While Using Pesticides' based on the following sub headings:

- Protective clothing and aids
- Care in Storage, Mixing and Handling
- Care during application
- Care during post application
- Any other general instructions

(50 marks)

Question 3

Write short notes on any two (02) of the following:

- I. Synergists
- II. Surfactants
- III. Wettable Powders
- IV. Emulsifiable concentrates

(2 X 25 marks)

Question 4

Give your comments on any two (02) of the followings based on your observations made in the pesticide market of Sri Lanka:

- I. Insecticide formulations available in Sri Lankan market
- II. Herbicide formulations available in Sri Lankan market
- III. Fungicide formulations available in Sri Lankan market
- IV. Solid pesticide formulations available in Sri Lankan market
- V. Liquid pesticide formulations available in Sri Lankan market

(2 X 25 marks)