

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



Uva Wellassa  
University

End Semester Examination August/ September 2011  
Year III Semester II

Pesticide Formulation and Application Technology (EAG 314-2) - Repeat

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**Instructions**

Answer **all** questions.

No. of questions : Part I: Four (04) Part II: Two (02)

No. of pages : Six (07)

Total marks allocated : 100%

Time : Two (02) hours

Index No:

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## 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.

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