



The Open University of Sri Lanka  
Faculty of Engineering Technology  
Final Examination 2005/2006  
**AEX4230/AED2209 Integrated crop protection**

Date : 17-03-2006

Time : 0930-1230 hours

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**SECTION 2**

**Answer any four (4) questions. All questions carry equal marks.**

1. (a) Describe the life cycle of Brown Plant Hopper (BPH) *Nilaparvata lugens*.  
(b) Develop a pest management programme for Brown Plant Hopper (BPH) *Nilaparvata lugens* pest infestation on paddy cultivation. State all steps involved in your pest management program.
2. (a) Give three (03) examples each for,  
i. coconut pest  
ii. vegetables pest  
(b) Give the life history, damage and control of one insect pest listed in (a) above.
3. (a) "Pesticides are classified in different ways" Comment on this statement by giving examples.  
(b) Name the different types of insecticide formulations available in the market.
4. Briefly explain three (3) of the following topics.  
a. Economic Injury Level (EIL) varies with the crop  
b. Importance of forecasting of pest outbreak  
c. LD50 value of a chemical pesticide.  
d. Plant disease triangle
5. "The knowledge of the type of causal agent and its lifecycle is essential to develop a disease management programme on coconut plantation". Critically evaluate this statement by giving examples.
6. (a) Briefly explain the effect of weeds on cultivated crops.  
(b) What are the weed control methods?  
(c) What are the types of herbicides available?