



The Open University of Sri Lanka
Faculty of Engineering Technology
Diploma/Degree in Technology and Industrial Studies
(Agriculture)

Final Examination- 2009

AEX 4230 Integrated Crop Production

Date : 16-03-2009
Time : 0930 - 1230 hours

SECTION II

1.
 - a) What are the different metamorphosis of insects?
 - b) Broadly discuss the different factors that affecting the economic injury level of pests.
2.
 - a) List four (04) pests of stored products.
 - b) Explain how the resistance develops in pests against agrochemicals in continuous use.
 - c) Discuss the economic factors affecting pest control.
 - d) Write an account on how do different farming systems affect the pest incidents.
3.
 - a) "Currently the most practical method of obtaining maximum benefits from beneficial Organisms are to conserve native species of parasites and predators and create favourable conditions so that their population will increase." Justify the above statement and explain the most practical way/s to achieve above, during cultivation practises.
 - b) Discuss the advantages and disadvantages of host plant resistance in pest management.
 - c) Explain different herbicide formulations available in the market.
4.
 - a) Classify the causal agents of diseases.
 - b) Describe the plant disease triangle.
 - c) Discuss the influence of environment on the development of plant diseases.
5.
 - a) Explain general characteristics of grasses classify as weeds.
 - b) Introduce a calendar to the farmers with most applicable methods to control weeds in the rice cultivations from land preparation to flowering.
6. Write short notes on any three (03) of the following.
 - a) Brown plant hopper attack of rice cultivations
 - b) Acute versus chronic toxicity.
 - c) Advantages of botanicals over synthetic pesticides.
 - d) Importance of dynamic resistance in host plants against disease development.