

EASTERN UNIVERSITY, SRI LANKA
THIRD YEAR SECOND SEMESTER EXAMINATION IN AGRICULTURE
END SEMESTER EXAMINATION 2002
COLLECTION AND REARING OF INSECTS AND PATHOGENS (AGB3202)

Answer All Questions

Time: 2 hours.

1. a) What informations are required to manage any insect pest effectively?
b) Name and classify two important insect pests that you have observed in your crop plot?
c) Briefly describe the life cycle of one of them.
d) "It is better to manage the pests rather than control them". Discuss this statement.

2. a) Name two insecticides and their rates of application, that you have used to control insect pests in your field?
b) Name the group in which these insecticides belong to?
c) What are the different colour labels you have observed on the insecticide containers?
d) What do the colours denote?
e) What precautions you have to adopt while applying insecticides to crops.
f) You have 150 grams of compound X and you dissolve it in 10 liters of water. What is the concentration in the water in PPM?
g) An apple is contaminated with 12 PPM of Dimethoate . How many apples would you have to eat to get an LD₅₀ dose of Dimethoate? Assume the LD₅₀ dose of Dimethoate is 8000mg/kg and you weigh 60 kg. The weight of an average apple is 200g.

(P.T.O)

3. a) Describe the specific features that you have used to identify the diseases in your crop.

b) What may be the possible reasons for the development of disease in your crop plot?

c) Name the cultural practices that you have adopted to reduce the disease development in your crop plot?

4. a) List the fungicides that are commonly used by the farmers to control

i) Foliar diseases and

ii) Soil borne diseases in the Batticaloa District

b) What problems you have you faced while isolating and identifying the causal organism from the disease specimen.