KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Ag.
One-Time Re-examination-April-2018
2014 Admission VII Semester
Ento.1202
Insect Ecology and Integrated Pest Management (2+1)

I  Fill in the blanks
1. .................. is a green labeled synthetic insecticide
2. The egg parasitoid, .................................. is widely used in rice IPM
3. Name a single dose anticoagulant rodenticide.........................
4. Aphid is a ........................ pest of cowpea (sporadic / regular)
5. Sterile insect technique was successfully used against ..................
6. The term ecology was coined by ........................................
7. Spinosad is obtained from the actinomycete ..........................
8. Mixing red earth with cowpea seeds is an example of ................method of control
9. This group of insect pathogens does not require registration for field use ..................
10. The state of inactivation in insects due to low temperature is known as ..................

II  Write Short notes on ANY FIVE of the following  
(5x2=10)
1. Bioassay
2. Insect growth regulators
3. Repellents and attractants
4. Bacillus thuringiensis
5. Neem
6. Mode of action of OP compounds
7. Moulting hormones

III  Answer ANY FIVE of the following  
(5x4=20)
1. Comment on environmental resistance
2. Define biocontrol. List out the merits and demerits of biocontrol.
3. Briefly mention the different methods of estimation of crop losses
4. Insecticide Act
5. Define IPM. Briefly describe cultural method of pest management.
6. Give critical comments on ETL and EIL
7. Role of pheromones in pest management.

IV  Write an essay on ANY ONE of the following  
(1x10=10)
1. Enumerate the groups of newer molecules of insecticides, and mention their modes of action, specific advantages over other groups of insecticides with their effectiveness against insect groups.
2. Describe the steps involved in the introduction of a natural enemy into a new country.

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