

Answer all questions

Time: 02 hours

1. a) List different types of pheromones produced by insects and their functions.
b) Briefly describe the use of pheromones in insect pest management. Provide examples where appropriate
2. Briefly describe the underlying mechanism of following pest management strategies,
 - a) Mixing of wood ash with grains
 - b) Spraying “ecdysone” when the last larval instars of brinjal shoot and pod borer (*Leucinodes orbanalis*) present in the field.
3. a) Classify insects based on their food habit.
b) Briefly describe the processes of absorption of carbohydrate and lipid in insects
4. Discuss the physiological aspects of sexual reproduction of insects