ZOOLOGY Paper-II (ZOO-602 B)

(Applied Zoology-II Opt. (ii) Economic Entomology and Pest Management—II)

Time Allowed: 3 Hours

Maximum Marks: 36

Note: Attempt five questions in all, selecting one question from each Unit.

Question No. 1 is compulsory.

- 1. Briefly explain the following:
 - (i) Caterpillar larva
 - (ii) Tumbler
 - (iii) Band
 - (iv) Name two pesticides banned in India
 - (v) LD₅₀
 - (vi) Two vertebrates useful in biological control.
 - (vii) Royal Jelly
 - (viii) Foragial legs

 $8 \times 1 = 8$

UNIT-I

- 2. What is Metamorphosis? Describe its various types present in insects.
- 3. (a) Give an account of pierc ng-sucking type of mouth parts of Mosquito.
 - (b) Give an account of major modifications in the antennae of insects.

UNIT-II

- 4. Give an account of Apiculture with special reference to species of Honey bee, flora for Apiculture, methods and appliances of bee-keeping and diseases of Honey bee.
- 5. Give an account of Lac-culture with special reference to species and varieties of Lac-insects, hostplants, cultivation of Lac, processing of Lac and enemies of Lac insects.

UNIT-III

- 6. What is an insecticide? What are the qualities of a good insecticide? Give an account of chlorinated Hydrocarbons insecticides with special reference to DDT, Taxaphene, Chloridane and Aldrin.
- 7. Give an account of insecticides of plant origin with special reference to Nicotine, Pyrethrum and Azadirachtin.

UNIT-IV

- 8. What do you mean by Biological control? How does it more ecofriendly than other control measures? Give an account, to use Protozoan, Bacteria, virus and fungi in Biological Control.
- 9. What is Integrated Pest-Management? Give an account of prerequisities, implementation strategy and frame work of IPM programme.

3.5