

M.Sc. (Zoology) (CBCS Pattern) Semester - IV
PSCZOOT15.1 - Paper-XV - Special Group : Entomology-IV
(Pest Control Measures and Insects Vectors)

P. Pages : 1

Time : Three Hours



GUG/S/23/11439

Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagrams wherever necessary.

1. Describe in detail the properties, mode of action and use of inorganic insecticides. **16**

OR

- a) Comment on mode of action and properties of chlorinated hydrocarbons.
- b) What are the properties and mode of action of pyrethroids.

2. What is biological control of pests? Comment on historical and theoretical basis of biological pest control. **16**

OR

- a) Comment on predators used in biological control programmes.
- b) Comment on life cycle and biological relationship of parasitoids.

3. Enlist the insect pathogenic bacteria used in biological control programmes. Comment on mass production and biological relationships of insect pathogenic bacteria. **16**

OR

Write notes on-

- a) Principles and applications of integrated pest management.
- b) Use of chemosterilants and hormones in pest control.

4. Give an account on diseases caused by flies with special emphasis on mode of transmission and control. **16**

OR

Write notes on-

- a) Describe the life cycle of lice and comment on diseases spread by lice.
- b) Describe the life cycle of mosquito and comment on control measures to reduce mosquito population.

5. Attempt the following- **16**

- a) Properties of organophosphates
- b) Natural enemies of pests
- c) Insect pathogenic viruses
- d) Pests of horse.
