

**K-559**

Total Pages : 3

Roll No. ....

**ZO-553**

**TOXICOLOGY**

M.Sc. Zoology (MSCZO)

2nd Year Examination, 2023 (Dec.)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

**SECTION–A**

**(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

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**[P.T.O.]**

1. What is insecticide resistant? Explain the mechanism of development of insecticide resistance.
2. Discuss the effects of pesticide residue on human beings, environment and non-target organisms.
3. Describe Insect chemosterilants and insect growth regulators.
4. Describe the structure, toxicity and mode of action of organophosphorus insecticides.
5. Explain the penetration and distribution of insecticides in insect body.

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. What do you understand by Dose-Response curve?
2. Write about DDT toxicity.
3. Write a short note on Pyrethroids.
4. What is bioaccumulation and biomagnification?

5. Write a short note on any *two* :
- (a) Attractants
  - (b) Sex pheromones
  - (c) Insect Repellents
  - (d) Antifeedants
6. What is pesticide photodecomposition?
7. Write about mode of action of microsomal mono-oxygenases.
8. Write a short note on Classification of insecticides.
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