

**P-968**

Total Pages : 3

Roll No. ....

**ZO-553**

**Toxicology**

M.Sc. Zoology (MSCZO)

2nd Year Examination, 2023 (June)

**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 answer 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)

1. Explain the principles and methods of pesticide residues analysis.

2. Discuss the penetration and distribution of insecticide in the insect cuticle.
3. Write in detail about the property, toxicity and mode of action of Nicotinoids.
4. Discuss the structure, toxicity and Mode of action of DDT.
5. What is Photodecomposition of insecticides? Discuss with an example.

## **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. Write a short note on :
  - (a) Insecticides classification.
  - (b) Biomagnification.
2. What is insecticide resistance in insects?
3. Write about Insect chemosterilant and Sex Pheromones.
4. How the Organophosphorus insecticides poisoning is treated?

5. Write about Carbamate Insecticides.
  6. Briefly discuss about Synthetic Pyrethroids.
  7. Write about the use of animals in toxicity studies.
  8. Describe the effect of insecticides on ionic channels.
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