

**S-169**

Total Pages : 3

Roll No. ....

**MZO-602**

**Toxicology-II, Newer Insecticide & Metabolism**

M.Sc. Zoology (MSCZO)

3rd Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**[Max. Marks : 35**

**Note :** This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

**SECTION-A**

**(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

**1.** Describe in detail the metabolism of synthetic Pyrethroids.

2. Explain Structure, Toxicity and Mode of action of Neonicotinoids.
3. Describe the Chlorinated hydrocarbons and their photodegradation. Also discuss factors affecting pesticide photodecomposition studies.
4. Explain the mode of action of Microsomal oxygenases.
5. What do you understand by composting? Describe the different factors that affect it.

## SECTION-B

### (Short Answer Type Questions)

**Note :** Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. What are Insect Repellents?
2. Write about effects of temperature on Toxicity.
3. Write a short note on any *two* :
  - (a) Bioaccumulation.
  - (b) Bioconcentration.
  - (c) Biomagnification.

4. Write about Non-monoxygenase enzymes.
  5. Write about effect of pesticide residues on human being and environment.
  6. Write a short note on Chromatography.
  7. Discuss management of insecticide resistance.
  8. Write a short note on Insect Chemosterilants and Antifeedants.
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