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Roll No.

MZO-602

Toxicology-II, Newer Insecticide & Metabolism

M.Sc. Zoology (MSCZO)

3rd Semester Examination, 2023 (June)

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 the structure, toxicity and mode of action of Synthetic Pyrethroids.

2. Describe the structure, toxicity and mode of action of Avermectins.
3. Discuss the effects of Pesticides residue on human beings, environment and non-target organisms.
4. What are the different mechanism involved in the development of insecticide resistance among insects?
5. Discuss the various processes involved in metabolism of insecticides.

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 is chromatography?
2. Write about bioaccumulation and biomagnification.
3. Write a short note on any *two* :
 - (a) Insect repellents
 - (b) Attractants
 - (c) Antifeedants
 - (d) Sex pheromones

4. Write about organophosphates.
 5. What is microbial degradation?
 6. Write a short note on insect chemosterilants and Insect growth regulators.
 7. Write about photodegradation of chlorinated hydrocarbon.
 8. Write a short note on microsomal cytochrome P-450-dependent mono-oxygenase system.
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