

K-531

Total Pages : 3

Roll No.

MZO-601

Toxicology-I Fundamental of Insecticide Toxicology

M.Sc. Zoology (MSCZO)

3rd Semester Examination, 2023 (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. 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 Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

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[P.T.O.

1. What are the different inorganic insecticides?
2. Explain in detail Probit Analysis.
3. What are the different neurotransmitters found in insect nervous system?
4. Explain in detail the toxicity of nicotine to mammals and insects, and explain its mode of action.
5. Discuss the various theories proposed to explain the mode of action of DDT.

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 do you understand by the 'Lateral Transport theory'?
2. Write short notes on :
 - (a) Genetic Toxicology.
 - (b) Neuron structure.
3. Explain Bacterial Gene Mutation Test (Ames test).

4. Describe symptoms of toxicity in mammals.
 5. What are various factors that are responsible for the selective toxicity of carbamate insecticides?
 6. What do you understand by the Type I and Type II pyrethroids?
 7. What are the various factors affecting the penetration of cuticle?
 8. What are the advantages and disadvantages of granular formations of insecticides?
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