S-1076

Total Pages: 3 Roll No.

ZO-553

Toxicology

M.Sc. Zoology (MSCZO)

2nd Year Examination, 2022 (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.

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.

 $(2 \times 19 = 38)$

1. Explain the structure, toxicity and mode of action of DDT.

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- **2.** Explain the terms (1) Insect chemosterilants and (2) Insect growth regulators.
- **3.** What is Photodegradation of insecticides? Explain with an example.
- **4.** What is insecticide resistance? Explain mechanism of insecticide resistance.
- **5.** Describe the effects of pesticides residues on Human beings, environment and non-target organisms.

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 on classification of Insecticides.
- 2. Define:
 - (a) Bioaccumulation.
 - (b) Biomagnification.
- **3.** What is Chromatography?

- **4.** What are the different neurotransmitters found in insect nervous system?
- 5. Write about "effect of chemical agents on insect's cuticle".
- **6.** How do carbamate insecticides undergo oxidative metabolism?
- **7.** Write a short note on :
 - (a) Sex pheromones.
 - (b) Insect Repellents.
- **8.** Write about enzymes involved in Pyrethroid Degradation.

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