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**Total Pages : 3**

**Roll No. -----**

**ZO-553**

**Toxicology**

**M.Sc. Zoology (MSCZO-19)**

**2<sup>nd</sup> Year, Examination 2021 (Winter)**

**Time: 2 Hours**

**Max. Marks: 80**

Note : This paper is of Eighty (80) 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 Twenty (20) marks each. Learners are required to answer any two (02) questions only.

[2 x 20 = 40]

**P.T.O.**

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- Q.1. Discuss the various theories proposed to explain the mode of action of DDT?
- Q.2. What are the various factors that are responsible for the selective toxicity of carbamate insecticides?
- Q.3. How does the activation of OPs take place during their metabolism?
- Q.4. What are pyrethrins? Explain with the help of structural formulae.
- Q.5. Explain the principle of Thin layer chromatography (TLC).

## **Section – B**

### **(Short-answer-type questions)**

Note: Section 'B' contains Eight (08) short-answer-type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only.

[4 x 10 = 40]

- Q.1. What are the different criteria for classifying the Insecticides?
- Q.2. Write an essay on the use of insect attractants?
- Q.3. Explain the mode of action of the microsomal monooxygenases?
- Q.4. What are the various objectives of pesticide residue analysis?
- Q.5. What do you understand by the Type I and Type II Pyrethroids?
- Q.6. What do you understand by cytochrome p-450?
- Q.7. Describe the sex pheromones of insect.
- Q.8. Explain the Neurotransmitters.
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