

**S-168**

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## **MZO-601**

### **Toxicology-I Fundamental of Insecticide Toxicology**

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 the chemical structure and mode of action of Retenone and Retenoids.

2. Define Insecticide. Explain their functions and classification.
3. Give a full detail on the uses of botanical insecticides with examples.
4. Describe the impact of synthetic pesticides on human health.
5. Describe various types of toxicity tests and their significance.

### **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. Explain Toxicology and its scope.
2. Write a short note on Cytochrome P-450.
3. Write a short note on DDT.
4. Explain the synthesis of Acetylcholine.
5. Explain how the physical agents effect on cuticle.

6. How do insecticides affect the nervous system.
  7. Give a full detail on mode of action of organochlorine.
  8. Explain  $LC_{50}$  and  $LD_{50}$ .
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