

**P-221**

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## **MSCZO-610**

**Entomology (Systematic and Applied Entomology)**

M.Sc. Zoology (MSCZO)

4th Semester Examination, 2023 (June)

**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.

(2×19=38)

1. Describe the different types of soldiers found in termites and their functions.

2. What are the different methods that can be employed for management of rodents?
3. How do you differentiate the different muscardine diseases of silk worms and how best these can be managed?
4. How is the honeybee colony organised ?

OR

Write how cultivation of lac is done starting from pruning to harvesting.

5. Discuss the importance of lice in the transmission of human diseases.

### **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. What do you understand by concepts of IPM?
2. Differentiate the damage caused by sorghum shoot fly and sorghum stem borer.

3. Write a short note on the following :
    - (a) Rice moth.
    - (b) Pest of cotton.
  
  4. Write in detail the life history of Gundi bug (*Leptocorisa acuta*).
  
  5. Write in detail the life history of the khapra beetle.
  
  6. Write a short note on the following :
    - (a) Uzifly.
    - (b) Pebrine.
  
  7. Describe the social behaviour of honey bees.
  
  8. Write the economic importance of the beneficial insects.
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