

Roll No. : .....

Total No. of Questions : 11 ]

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# **BFMS-419**

**M.Sc. (Final) Examination, 2023**

**ZOOLOGY**

Paper - VIII (c)

**(Entomology)**

*Time : 3 Hours ]*

*[ Maximum Marks : 75*

**Section-A**

**(Marks : 2 × 10 = 20)**

*Note :-* Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

**Section-B**

**(Marks : 5 × 5 = 25)**

*Note :-* Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

**Section-C**

**(Marks : 10 × 3 = 30)**

*Note :-* Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

**Section-A**

1. (i) Define Pest.
- (ii) Differentiate attractants and repellants.

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- (iii) Precautions of safe handling of pesticides.
- (iv) Write names of *three* major pests of wheat and paddy.
- (v) Characteristics of pheromones.
- (vi) Give a general idea of storage of cereals and pulses.
- (vii) Write brief note on Lac Culture.
- (viii) What are the beneficial insects ? Give *two* examples.
- (ix) Population dynamics of insects.
- (x) Write a note on bees dance.

#### **Section–B**

2. Give a brief idea of damage caused by pests.

*Or*

Write a short note on IPM.

3. Write a short note on development of resistance to chemicals.

*Or*

Write a short note on Insecticides formulations.

4. Give a brief idea about chemosterilants.

*Or*

Give a brief idea about Growth Regulators.

5. Write a short note on Apiculture.

*Or*

Write a short note on Dengue Fever.

6. Give a brief idea about Social Life in Termite.

*Or*

Give a brief idea about Caste determination in social insects.

**Section–C**

7. Give a detailed account of different principal methods of pest control.
8. Write an essay on organophosphate insecticides.
9. Describe life history, damage, caused and control of *three* major pests of sugarcane crop.
10. Describe any *two* insects borne diseases studied by you.
11. Give a detailed account of interspecific relations among insects.