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**AC-234148**

**M.Sc. (Semester-I)  
Examination, Dec.-Jan. (2025-26)**

**ZOOLOGY**

**( Entomology-Pest Ecology and  
Agricultural Entomology )**

*Time Allowed : Three Hours*

*Maximum Marks : 70*

**Note :** This question paper is divided into four sections. Attempt questions from all four sections as per given directions. Distribution of marks is given in each section.

**SECTION-A**

**( Objective Type Questions )**

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**( 1 )**

**[P.T.O.]**



**Note:** Attempt all ten questions. Each question carries 1 mark.  
[10x1=10]

1. (i) The earliest pesticide was :
- (a) DDT
  - (b) Nicotine
  - (c) Pyrethrin
  - (d) Margosa
- (ii) Locust belongs to family :
- (a) Termitidae
  - (b) Acrididae
  - (c) Scolytidae
  - (d) Miridae
- (iii) Biological control of pest is :
- (a) Highly expensive
  - (b) Self perpetuating
  - (c) Toxic
  - (d) Polluting

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- (iv) Insect which feed on more than one type of food are called :
- (a) Polyphagous
  - (b) Monophagous
  - (c) Entomophagous
  - (d) None of the above
- (v) Gandhi bug attacks on \_\_\_\_\_ stage.
- (vi) Chemicals which kill the pests are called \_\_\_\_\_.
- (vii) Pyrethroids is a example of chemical pesticide.  
[True/False]
- (viii) Leuconoid orbonalis is a pest of Brinjal.  
[True/False]
- (ix) Which of the following is a chemical control method for pests?
- (a) Biological control
  - (b) Pesticide application
  - (c) Trapping
  - (d) Crop rotation

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[P.T.O.]



(x) Which of the following Bt crops is being grown in India by the farmers?

- (a) Soyabean
- (b) Maize
- (c) Cotton
- (d) Brinjal

### SECTION-B

#### ( Very Short Answer Type Questions )

**Note :** Attempt any five questions. Each question carries 02 marks. (Word limit 25-30 words). [5x2=10]

2. (i) Write the Zoological name of two pests of Vegetables.
- (ii) What is Quarantine?
- (iii) What is Pheromone?
- (iv) Write the three pests name of fruits.
- (v) Physical control of pests

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(vi) MH agonist

(vii) Bt crop

### SECTION-C

#### ( Short Answer Type Questions )

**Note :** Attempt any five questions. Each question carries 04 marks. (Word limit : 250 words) [5x4=20]

3. (i) Chemical control of pest
- (ii) Pest spectrum
- (iii) Modes of population growth of pests
- (iv) Biology of control measure of *Pyrilla perpusilla*
- (v) JH Mimics
- (vi) Migration of Locust
- (vii) Integrated pest management

### SECTION-D

#### ( Essay Type Questions )

**Note :** Attempt any three questions . Each question carries 10 marks. (More than : 500 words) [3x10=30]

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[P.T.O.]



- 4.
- (i) What is Quarantine? Discuss the importance of quarantine in pest control.
  - (ii) Describe the Biology, nature of damage and control measures of pest of pulse crop?
  - (iii) What is pheromone? Discuss its uses in pest surveillance and management.
  - (iv) Describe the development of Bt crop by recombinant DNA technology.

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