

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.A./B.Sc. (General) 5th Semester

(1129)

ZOOLOGY

**Paper—II : Applied Zoology—I Opt. (ii) : Economic
Entomology and Pest Management—I (Zoo-502 B)**

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt **five** questions. Question no. **1** is compulsory.
Select **one** question from each section.

1. Give short answers :

- (a) Draw only the mouth parts of house fly.
- (b) What is moniliform antenna ? Give example.
- (c) What is pupa ?
- (d) Give the zoological name and systematic position of sugarcane leaf hopper.
- (e) Name the host and nature of damage of pink bollworm.
- (f) What are the control measures for pumpkin fruitfly ?
- (g) Give the Zoological name and systematic position of rice hispa.
- (h) What is the economic importance of fleas ? 1×8

SECTION—I

2. Define metamorphosis. Describe the various types of metamorphosis seen in insects. 7
3. Give an account of the types of legs in insects with suitable examples. 7

SECTION—II

4. Give a detailed account of Rice Gundhi bug along with life cycle and control measures. 7
5. Write detailed notes on the following pests :
 - (a) Termites
 - (b) Red pumpkin beetle. $3\frac{1}{2}+3\frac{1}{2}$

SECTION—III

6. Name lepidopteran pests of stored grains. Describe systematic position, habits and nature of damage of any two of them. 7
7. Describe in detail the following :
 - (a) Pulse beetle
 - (b) Khapra beetle. $3\frac{1}{2}+3\frac{1}{2}$

SECTION—IV

8. Give the systematic position, disease caused and control of the following :
 - (a) *Phlebotomous*
 - (b) Warble fly
 - (c) Poultry louse. $3+2+2$
9. Give a detailed account of the following with respect of their medical importance :
 - (a) *Aedes*
 - (b) *Culex*
 - (c) House fly. $3+2+2$