

(i) Printed Pages: 3

Roll No.

(ii) Questions : 9

Sub. Code :

0	4	5	9
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Exam. Code :

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B.A./B.Sc. (General) 5th Semester
(2122)

ZOOLOGY (ZOO-502B)

Paper—II : Applied Zoology-I

Opt. (ii) : Economic Entomology & Pest Management - I

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt *five* questions in all including Question No.1, which is compulsory and selecting **one** question from each unit. Draw neat and clean diagrams.

1. Give short answers :

(a) Define Stadium.

(b) What is Puparium ?

(c) Ants and Bees belong to which order ?

(d) Give the zoological name and systematic position of Lesser grain borer.

(e) Name the host and nature of damage by Jassid.

(f) Write diseases that spread by sand fly.

(g) Characteristics of Diptera.

(h) Strike.

1×8=8

UNIT—I

2. What is Metamorphosis ? Explain different types of metamorphosis with help of suitable examples and diagrams. 7
3. Give a zoological name, systematic position, nature of damage along with life cycle and control measures of pink bollworm. 7

UNIT—II

4. Write systematic position, scientific name, habit, nature of damage and control measure along with life cycle of Rice Gundy Bug. 7
5. Write systematic position, zoological name, host and nature of damage caused by :
- (a) Wheat stem borer
- (b) Pumpkin fruit fly. 3.5+3.5=7

UNIT—III

6. (a) Write systematic position, scientific name, habit, nature of damage of Lepidopteran pest of stored grain.
- (b) Write nature of damage and common name of *Callosobruchus maculatus*. 5+2=7
7. Describe detail of the following :
- (a) Khapra beetle
- (b) Rust red flour beetle. 3.5+3.5=7

UNIT—IV

8. Write systematic position, disease caused and control measures along with life cycle of house fly. 7
9. Give the detailed account of the following with respect to their medical importance : 7
- (a) *Aedes*
 - (b) Blow fly
 - (c) Poultry louse. 3+2+2=7