

(i) Printed Pages : 3

Roll No. ....

(ii) Questions : 9

Sub. Code :

0	1	5	6
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Exam. Code:

0	0	0	2
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## **B.A./B.Sc. (General) 2nd Semester 1048**

### **ZOOLOGY**

#### **Paper - I : Biodiversity & Ecology-I (ZOO-201)**

**Time : 3 Hours]**

**[Max. Marks : 36**

*Note :-* (i) Question No. 1 is compulsory.

(ii) In all, five questions are to be attempted including the compulsory question.

(iii) Select any one question from each unit.

1. Explain the following :—

(i) Malpighian tubules.

(ii) Rostrum.

(iii) Ecdyson.

(iv) Tentorium.

(v) Hyperparasitism.

(vi) Ecological density.

(vii) Bioluminescence.

(vii) Eurythermal.

1x8

## **UNIT-I**

2. Describe the structure and working of the eye of the cockroach. 7
3. Give an account of the social life of honey bee. 7

## **UNIT-II**

4. (a) Give an account of cephalothoracic appendages of prawn. 4
- (b) Describe life cycle of Anopheles. 3
5. Classify up to order and give a brief ecological note and economic importance of :
  - (a) Eupagurus (Hermit crab). 3
  - (b) Palamnaeus (Scorpion). 2
  - (c) Limulus (King crab). 2

## **UNIT-III**

6. Discuss the influence of light on the animals in their environment. 7
7. (a) Explain the concept of flow of energy in an ecosystem. 5
- (b) Define niche. 2

## **UNIT-IV**

- |    |   |   |
|----|---|---|
| 8. | Discuss the different characteristics of population in detail and also mention different ways to regulate it. | 7 |
| 9. | Describe briefly :—   |   |
|    | (a) Mimicry   | 3 |
|    | (b) Carboncycle.  | 4 |















