

(i) Printed Pages: 2

Roll No. ....

(ii) Questions : 9

Sub. Code : 

0	1	5	6
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Exam. Code : 

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B.A./B.Sc. (General) 2<sup>nd</sup> Semester

1059

**ZOOLOGY**

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

**Time Allowed : Three Hours]**

**[Maximum Marks : 36**

**Note :—** (1) Question No. 1 is compulsory.

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

(3) Select any **one** question from each unit.

1. Explain the following :

(i) Telson

(ii) Rostrum

(iii) Ecdysis

(iv) Phagocytes

(v) Optimum Range

(vi) Allen's Rule

(vii) Heliophytes

(viii) Echolocation.

1×8

## UNIT—I

2. Describe in detail Male Reproductive System of the cockroach. Explain the process of Ootheca formation. 7
3. Give an account of the social life of insects (Honeybee and Termite). 7

## UNIT—II

4. (a) Give an account of Excretory System of prawn. 4
- (b) Describe the structure of body wall of prawn. 3
5. Classify up to order and give a brief ecological note and economic importance of :
  - (a) *Cancer* (Crab) 3
  - (b) *Aranea* (Spider) 2
  - (c) *Sacculina*. 2

## UNIT—III

6. Discuss the influence of temperature on the animals in their environment. 7
7. (a) Describe food web in an ecosystem. 5
- (b) Distinguish between habitat and niche. 2

## UNIT—IV

8. Discuss Fossorial and Scansorial adaptations in animals. 7
9. Describe briefly :
  - (a) Population characteristics 4
  - (b) Water cycle. 3