

Exam.Code:0002

Sub. Code: 0156

2071

B.A./B.Sc. (General) Second Semester

Zoology

Paper – I: Biodiversity and Ecology - I (ZOO-201)

Time allowed: 3 Hours

Max. Marks: 36

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Explain briefly:-

- a) Telson
- b) Ommatidia
- c) Phyllobranch
- d) Nasutes
- e) Bioluminescence
- f) Hyperparasitism
- g) Alien's rule
- h) Heliophytes

(8x1)

UNIT - I

- II. Explain the respiratory system of cockroach. (7)
- III. Give an account of social life of termite. (7)

UNIT - II

- IV. Explain reproductive system of *Palaemon*. (7)
- V. Classify up to order and give a brief ecological note and economic importance of:
 - a) Eupagurus (3)
 - b) Cancer (2)
 - c) Aranea (2)

P.T.O.

(2)

UNIT - III

- VI. Discuss the influence of temperature on the animals in their environment. (7)
- VII. a) Explain the concept of flow of energy in an ecosystem.
b) Distinguish between habitat and niche. (3,4)

UNIT - IV

- VIII. Give an account of natatorial and fossorial adaptations. (7)
- IX. Discuss the different characteristics of population in detail and also mention different ways to regulate it. (7)

x-x-x