

Exam.Code:0004
Sub. Code: 0355

2071

B.A./B.Sc. (General) Fourth Semester
Zoology

Paper – I: Biodiversity (Chordates) and Evolution - II (ZOO-401)

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. Briefly explain the following:-

- a) Ecological importance of Naja.
- b) Sexual dimorphism on *Uromastix*.
- c) Uropygial gland.
- d) Antivenin.
- e) Significance of presence of single ovary in birds.
- f) Perching mechanism
- g) Characters of Homoerectus
- h) Various types of teeth found in mammals (8x1)

UNIT - I

II. Classify up to orders and write brief ecological notes on the following:-

- a) Calotes
- b) Crocodilus (2x3½)

III. Describe the poison apparatus of snakes. Also discuss the types of fangs found in poisonous snakes. (7)

UNIT - II

IV. Write a short note on the following:-

- a) Excretory system of Pigeon
- b) Respiratory system of pigeon (2x3½)

V. Write a brief ecological note on the following:-

- a) *Casuaris*
- b) *Tyto* (2x3½)

P.T.O.

(2)

UNIT - III

VI. Describe the following in detail:-

a) Dentition in mammals

b) Endocrine gland of rats

(2x3½)

VII. Classify upto order and write a brief ecological note on the following:

a) *Hystrix*

b) *Panthera*

(2x3½)

UNIT - IV

VIII. Write a short note on the following:-

a) Microevolution

b) Biological concept of species

(2x3½)

IX. Discuss in detail the evolution of man.

(7)

x-x-x