

FACULTY OF SCIENCE

B. Sc. II-Year Examination, March / April 2015

Subject : Zoology

Paper – II

Biology of Chordates, Embryology, Ecology and Zoogeography

Time : 3 Hours

Max. Marks : 100

Note : Draw the diagrams wherever necessary.

Section – A (5x8=40 Marks)

(Short Answer Type)

Answer any five questions. Attempt at least one question from each unit.

UNIT-I

- 1 Urodela
- 2 Retrogressive Metamorphosis

UNIT-II

- 3 Chelonia
- 4 Types of feathers

UNIT-III

- 5 Placenta
- 6 Primary germ layers

UNIT-IV

- 7 Seral Stage
- 8 Predation

Section – B (4x15= 60 Marks)

Answer all questions.

- 9 (a) Describe the structure and life history of Herdmania.
OR
(b) Write detail the general organization of Chordates you have studied.
- 10 (a) Describe the respiratory organs in Calotes. How does the breathing mechanisms differ from that of frog respiration.
OR
(b) What are the different flight adaptation in birds?
- 11 (a) What is regeneration write with reference to Turbellarians and Lizards?
OR
(b) What is Oogenesis, write in detail about the process?
- 12 (a) Write about the ecological succession in an ecosystem giving suitable examples.
OR
(b) Write about the Zoogeographical realms and their characteristics fauna.