

FACULTY OF SCIENCE

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

Subject : Zoology

Paper – I

Biology of Invertebrates and Cell Biology

Time : 3 Hours

Max. Marks : 100

Note : Draw the diagrams wherever necessary.

Section – A (5x8=40 Marks)

(Short Answer Type)

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

UNIT-I

- 1 Miracidium
- 2 Botryoidal tissue

UNIT-II

- 3 Zoea
- 4 Tornaria larva

UNIT-III

- 5 Exocytosis
- 6 Lampbrush Chromosome

UNIT-IV

- 7 Structure of Pyrimidines
- 8 Steroids

Section – B (4x15= 60 Marks)

(Essay Answer Type)

Note: Answer **all** questions.

- 9 (a) Classify Phylum Protozoa up to classes with examples.

OR

- (b) Describe the canal system in Sycon.

- 10 (a) Discuss the characters and significance of Peripatus.

OR

- (b) Describe the Water Vascular System in Starfish.

- 11 (a) Describe the structure and functions of Cell organelle, plasma, membrane.

OR

- (b) Explain in detail the process of Meiosis and its significance.

- 12 (a) Describe the structure of fatty acids, differentiate saturated and unsaturated fatty acids.

OR

- (b) Write an account on the structure and functions of RNA.
