

Roll No. ....

**91039**

**B. Sc. (Hons.) Chemistry Ist Sem.  
Examination – December, 2015**

**ZOOLOGY – I OPTIONAL**

*Time : Three Hours ]*

*[ Maximum Marks : 40*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note: Attempt five questions in all. Question No. 1 is compulsory. Attempt any four questions selecting one from each Unit. All questions carry equal marks.*

1. (a) What is flame cell ?
- (b) Define bilateral symmetry.
- (c) Explain about planula larva.
- (d) Define about hydro cauli.

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P. T. O.

(e) Why is the phylum of sponges named as porifera ?

(f) Write sexual dimorphism in Ascaris.

(g) What is schizocoel ?

(h) Name three pathogenic human tapeworm.

(i) Name the fundamental larvae of echinoderms.

(j) What is Protozoan ?

$$1 \times 10 = 10$$

#### UNIT - I

2. Write short notes on :

(a) Reproduction in protozoa

4

(b) Origin of metazoa

$3 \frac{1}{2}$

3. Explain about following :

(a) Structural organization in Sycor.

$3 \frac{1}{2}$

(b) Polymorphism in coelenterates

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#### UNIT - II

4. Give complete explanation on the general characters of phylum platyhelminthes.

$7 \frac{1}{2}$

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5. Explain the life history of Ascaris with a diagrammatic representations.

$7 \frac{1}{2}$

#### UNIT - III

6. Explain about the evolution in polychaeta of Annelida.

$7 \frac{1}{2}$

7. Give a general account on :

(a) General characters of Phylum arthropoda.

4

(b) Metamorphosis in insects.

$3 \frac{1}{2}$

#### UNIT - IV

8. Give a general account on the Torsion and Detorsion of Phylum Mollusca.

$7 \frac{1}{2}$

9. Give general account on :

(a) Water vascular system in echinoderms.

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(b) Larval forms in echinodermata.

$3 \frac{1}{2}$

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