

(i) Printed Pages : 3]

Roll No. ....

(ii) Questions : 9]

Sub. Code : 

0	0	5	5
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Exam. Code : 

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**B.A./B.Sc. (General) 1st Semester  
Examination**

**1127**

**ZOOLOGY**

**Biodiversity & Cell Biology-II**

**Paper : II (Zoo-102)**

**Time : 3 Hours]**

**[Max. Marks : 36**

**Note :-** (i) Attempt *five* questions in all.

(ii) Question No. 1 is compulsory.

(iii) Select *one* question from each Unit.

(iv) Illustrate your answer with suitable diagrams.

1. Give/Define brief explanations of the following :

(a) Scolex

(b) Mehli's gland

(c) Protandry

(d) Heterochromatin

**NA-26**

( 1 )

Turn Over

- (e) Pineal spicule
- (f) Hexacanth
- (g) Gravid Proglottid
- (h) Benign Tumour

1×8=8

### Unit-I

2. Give a detailed account of Life History of Fasciola. 7
3. (a) Describe the morphological adaptations of Helminthes.
- (b) Explain the sense organs of Ascaris. 3½, 3½

### Unit-II

4. Explain the different types of Nephridia of Pheretima. 7
5. (a) Draw well labelled diagram of T. S. Pheretima through Typhlosolar region. 4
- (b) Classify upto order with ecological note and economic importance (if any) of any *two* of the following :
  - (i) Eunice
  - (ii) Tubifex
  - (iii) Pontobdella

1½ each

### Unit-III

6. (a) Explain Polymorphism in Lysosome. 5  
(b) What is the role of Autolysis ? 2
7. (a) Differentiate between Prokaryotic and Eukaryotic Ribosomes. 4  
(b) Write a note on centriolar satellite complex. 3

### Unit-IV

8. (a) Describe the structure and functions of Nucleolus. 4  
(b) Explain the types of Cancer. 3
9. (a) Differentiate between B cells and T cells. 4  
(b) How do the B cells respond to Antigens ? 3