

(i) Printed Pages: 3

Roll No. ....

(ii) Questions : 9

Sub. Code : 

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Exam. Code : 

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B.A./B.Sc. (General) 1<sup>st</sup> Semester  
(2122)

**ZOOLOGY**

**BIODIVERSITY & CELL BIOLOGY-II (ZOO-102)**

**Paper—II**

**Time Allowed : Three Hours]**

**[Maximum Marks : 36**

**Note :—** Attempt *five* questions in all including Question No. I, which is compulsory and select **one** question from each unit. Illustrate your answer with suitable diagrams.

1. Give brief explanation of the following :

(a) Rhabditiform larva

(b) Mehlis's gland

(c) Economic importance of *Schistosoma*

(d) Clitellum

(e) Spermatheca

(f) Secondary Lysosomes

(g) B-cells

(h) Lampbrush chromosomes.

1×8=8



## UNIT—I

2. Give a detailed account of stages in development of *Taenia solium*. 7
3. Write a short note on :
  - (a) Morphological adaptations of Helminthes
  - (b) Draw various larval forms of *Fasciola hepatica*. 2,5

## UNIT—II

4. Describe the septal nephridium of *Pheretima*. How is it different from pharyngeal and integumentary nephridia ? 7
5. (a) Draw the T.S. of *pheretima* through typhlosolar region.  
(b) Classify upto orders with ecological note of the following :
  - (i) *Aphrodite*
  - (ii) *Eunice*. 3,4

## UNIT—III

6. Give a detailed account of structure and functions of ribosomes. 7
7. Write notes on the following :
  - (a) Lysosomal enzymes and its function
  - (b) Draw the structure of centriole. 3,4



## UNIT—IV

8. (a) Differentiate between euchromatin and heterochromatin  
(b) Describe the ultrastructure of nucleolus and its functions.  
3,4
9. Write short notes on :  
(a) Humoral Immunity  
(b) Origin and properties of cancer cells. 3,4