

(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) 1st 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