

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

0	0	5	5
---	---	---	---

Exam. Code :

0	0	0	1
---	---	---	---

B.A./B.Sc. (General) 1st Semester
(2123)

ZOOLOGY

Biodiversity & Cell Biology—II

Paper—II (ZOO-102)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt FIVE questions in all, including Question No. 1 which is compulsory and selecting ONE question from each Unit. Illustrate your answer with suitable diagrams.

1. Give a brief explanation of the following :

- Flame cells
- Amphids
- Setae in *Pheretima*
- Cocoon formation in earthworm
- Centromere
- Passive immunity
- Nucleosome
- Metastasis.

8×1=8

UNIT-I

2. Give a detailed account of larval stages in development of *Fasciola*.

7

3. Explain the following :
- (a) Segmentation in *Taenia*
 - (b) Physiological adaptations in Helminthes. 3,4

UNIT-II

4. (a) Draw the T.S. of *Pheretima* through typhlosolar region.
(b) Morphology of *Pheretima*. 3,4
5. Classify upto orders with ecological note and economic importance of the following :
- (a) *Neries*
 - (b) *Tubifex*. 3½,3½

UNIT-III

6. Discuss the structure and function of ribosomes and differentiate between 70S and 80S ribosomes. 7
7. Write short notes on the following :
- (a) Polymorphism in lysosome
 - (b) Draw the structure of centriole. 4,3

UNIT-IV

8. Differentiate between the following :
- (a) Euchromatin and Heterochromatin
 - (b) Cellular and Humoral immunity. 3,4
9. Describe the structure and function of nucleolus and pore complex of nucleus. 7