

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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

1125

ZOOLOGY

Paper - B : Bio-Diversity and Cell Biology-II (ZOO-102)

Time Allowed : Three Hours]

[Maximum Marks : 36

- Note :-
- (1) Attempt **five** questions in all.
 - (2) Q. No. 1 is compulsory.
 - (3) Select **one** question from each Unit.
 - (4) Illustrate your answers with suitable diagrams.

1. Give/Define brief explanations of the following :

- (a) Flame cells
- (b) Ootype
- (c) Pseudocoel
- (d) Clitellum
- (e) Hermaphrodite
- (f) Autophagy
- (g) Svedberg unit
- (h) Passive immunity.

1×8=8

UNIT-I

2. Give an account of the reproductive systems of *Fasciola*. 7
3. (a) Describe the structure of *Miracidium* larva.
(b) Name and describe the sense organs found in *Ascaris*.

$3\frac{1}{2} \times 2 = 7$

UNIT-II

4. Describe the circulatory system of *Pheritima*. 7
5. (a) Describe the structure of septal nephridium. 3
(b) Classify up to orders, with ecological note and economic importance (if any) of any two of the following :
- (i) *Aphrodite*
(ii) *Pontobdella*
(iii) *Nereis*.

$2 \times 2 = 4$

UNIT-III

6. Describe the kinds of lysosomes. Also give the names of enzymes present in the lysosome. 7
7. Describe the structure and functions of centrosome. 7

UNIT-IV

8. Discuss the gross morphology and function of the nucleus. 7
9. What are cancer cells ? How do they form ? Give basic idea of transformation of normal cell into cancerous one. 7