

(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

1128

ZOOLOGY

Paper-II : Biodiversity & Cell Biology-II (Zoo-102)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— (1) Attempt **five** questions in all.

(2) Question No. 1 is compulsory.

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

(4) Illustrate your answer with suitable diagrams.

1. Define/Give brief explanation of the following :

- (a) Spermatheca
- (b) Protandry
- (c) Onchosphere
- (d) Scolex
- (e) Pappillae
- (f) Heterochromatin
- (g) Karyotype
- (h) Immunoglobulin G.

1×8=8

UNIT—I

2. Describe the reproductive system of Fasciola with well labelled diagram.

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3. (a) Explain the physiological adaptations of Helminthes parasite. 3
- (b) Write note on Body Wall of Ascaris. 4

UNIT—II

4. What are Nephridia ? Name and describe various types of Nephridia found in Pheretima. 7
5. (a) Make a well labelled sketch of T.S. Pheretima through typhlosolar region of Intestine. 3
- (b) Classify upto order with ecological note of the following :
 - (i) Nereis 2
 - (ii) Pontobdella. 2

UNIT—III

6. (a) Describe the structure of 80-S ribosome. 4
- (b) Why the ribosomes are called protein-factories ? 3
7. (a) Explain the lysosomal enzymes with the help of examples. 5
- (b) What are autophagic vacuoles ? 2

UNIT—IV

8. (a) Explain the ultrastructure of Nucleolus. 5
- (b) Give the functions of nuclear membrane. 2
9. Differentiate between :
 - (a) Benign tumour and malignant tumour 3
 - (b) B-cells and T-cells 2
 - (c) Inborn and acquired immunity. 2