

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	7	4	5	6
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Exam. Code :

0	0	0	5
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B.A./B.Sc. (General) 5th Semester
(2124)

ZOOLOGY

Paper-I : Developmental Biology (ZOO-501)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Question No. 1 is compulsory. **ONE** question is to be attempted from each unit. In all, **FIVE** questions are to be attempted including compulsory one.

1. Write briefly :

(a) Chromosome Puffing

(b) Fertilizin

(c) Paedogenesis

(d) Intercalation

(e) Inducers

(f) Anisogamy

(g) Sub Testicular Cells

(h) Mosaic Egg.

8×1=8

UNIT—I

2. Describe the process of spermatogenesis and explain the role of subtesticular cells in spermatogenesis. 7
3. Write short notes on :
 - (a) Vitellogenesis.
 - (b) Polarity of Egg. 4+3=7

UNIT—II

4. How is Parthenogenesis different from fertilization and what are the significance of both ? 7
5. Write notes on :
 - (a) Coeloblastula.
 - (b) Indeterminate cleavage.
 - (c) Fate maps of chick embryo. 2+1+4

UNIT—III

6. What are the cell interactions ? Write about paracrine and juxtacrine cell to cell interactions. 7
7. Write an account on the development of Rabbit upto 3 germ layers. 7

UNIT—IV

8. Describe the retrogressive Metamorphosis in Herdmania. Explain the various changes in Larval life to adult life. 7
9. Explain different types of placenta with regard to the intimacy between foetal & maternal parts of placenta. 7