

(i) Printed Pages : 3]

Roll No.

(ii) Questions : 9]

Sub. Code :

0	4	5	6
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Exam. Code :

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

1127

ZOOLOGY

(Developmental Biology)

Paper : I (ZOO-501)

Time : 3 Hours]

[Max. Marks : 36

Note :- (i) Attempt *five* questions in all, selecting *one* question from each Unit.

(ii) Question No. 1 is compulsory.

(iii) Support your answer with suitable diagrams.

1. Write briefly :

(i) Synkaryon

(ii) Decidua

(iii) Involution

NA-91

(1)

Turn Over

+

(iv) Spermiation

(v) Sertoli Cells

(vi) Polyspermic Fertilization

(vii) Homolecithal

(viii) Parthenogenesis in Honey Bee

8×1=8

Unit-I

2. (a) Describe egg membranes and their functions. 5
(b) Explain the oocyte-follicle cells interactions. 2
3. (a) Write a note on Vitellogenesis. 4
(b) What do you understand by polarity of an egg ? 3

Unit-II

4. Define cleavage and describe various cleavage patterns depending upon the amount and distribution of yolk. 7
5. (a) Describe fate map of chick. 3
(b) Write notes on :
(i) Coeloblastula
(ii) Discoblastula 2+2=4

Unit-III

6. Describe development of frog up to three germ layers. 7
7. (a) Write note on cell differentiation. 3.5
- (b) Describe the role of inducers in tissue interaction. 3.5

Unit-IV

8. Discuss various types of placenta in mammals with respect to the nature of foetal membranes involved. 7
9. Describe the formation and functions of foetal membranes in rabbit. 7