

B.Sc. CBCS Pattern Semester-IV
USCZOT07 - Zoology Paper-I : Developmental Biology

P. Pages : 1

Time : Three Hours



GUG/W/23/12004

Max. Marks : 50

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labeled diagrams wherever necessary.

1. Describe in detail types of cleavage. 10

OR

a) Types of eggs on the basis of distribution of Yolk. 5

b) Types of Blastula. 5

2. Explain in detail development of Extra embryonic membranes in chick. 10

OR

a) Formation and structure of Primitive streak. 5

b) Gastrulation in frog. 5

3. Explain in detail the process of Oogenesis. 10

OR

a) Implantation and its types. 5

b) Classification of placenta based on the distribution of villi on chorion. 5

4. Describe in detail Mechanism of apoptosis. Add a note on its significance. 10

OR

a) In Vitro Fertilization. 5

b) Surgical contraceptives. 5

5. Write 4-5 lines on the following **any ten**. 10

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|---------------------------|----------------------|
| a) Microlecithal Egg. | b) Function of Yolk. |
| c) Radial Cleavage. | d) Blastodisc. |
| e) Epiboly. | f) Periblast. |
| g) Graafian Follicle. | h) Chorionic Vill. |
| i) Functions of Placenta. | j) Semen Bank. |
| k) Test Tube Baby. | l) Stem cells. |
