

B.Sc.- II (CBCS Pattern) Semester-IV
USCZOT07 - Credits-II Core Paper-VII - Zoology Paper-I
Developmental Biology

P. Pages : 1

Time : Three Hours



GUG/S/25/12004(S)

Max. Marks : 50

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

1. Give a detailed account on various types of eggs 10

OR

- a) Types of cleavage
- b) Mechanism of fertilization

2. Write an essay on morphogenic movement during the gastrulation of frog. 10

OR

- a) Allantois and Yolk sac
- b) Formation of primitive streak in chick

3. Write an essay on the process of spermatogenesis 10

OR

- a) Structure of ovum
- b) Implantation in mammals

4. Write an essay on mechanism of apoptosis. 10

OR

- a) Types of stem cells
- b) Test tube baby

5. Write four or five lines on each of the following **any ten**. 10

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|-------------------|--------------------------|
| i) Alecithal egg | ii) Vitellogenesis |
| iii) Blastocyst | iv) Epiboly |
| v) Blastodisc | vi) Amnion |
| vii) Placentation | viii) Zonary placenta |
| ix) Corpus luteum | x) IVF |
| xi) Vasectomy | xii) Oral contraceptives |
