

B.Sc.-II (CBCS Pattern) Semester - IV
USCZOT07 / USZOT-07 / 13 - Core Paper-VII - Zoology Paper-I
(Developmental Biology)

P. Pages : 1

Time : Three Hours



GUG/S/23/12004

Max. Marks : 50

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw a well labelled diagram wherever necessary.

1. Write an essay on mechanism of fertilization. 10

OR

 - a) Cleavage
 - b) Blastulation

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

OR

 - a) Invagination and Involution.
 - b) Formation of Primitive Streak.

3. Write an essay on implantation in mammals. 10

OR

 - a) Formation of spermatids.
 - b) Vitellogenesis.

4. Describe the process of In Vitro Fertilization. 10

OR

 - a) Semen Banks
 - b) Contraceptive

5. Write four or five line on each of the following **any ten.** 10
 - i) Yolk
 - ii) Macrolecithal
 - iii) Telolecithal
 - iv) Allantois
 - v) Amnion
 - vi) Hensen's node
 - vii) Deciduous Placenta
 - viii) Corona radiata
 - ix) Sertoli cells
 - x) Apoptosis
 - xi) Totipotent cell
 - xii) Test tube bay
