

B.Sc. S.Y. (CBCS Pattern) Semester-IV  
**USCZOT07 - Core Paper-VII - Zoology Paper-I - Developmental Biology**

P. Pages : 1

Time : Three Hours



**GUG/W/24/12004**

Max. Marks : 50

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

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|-----------|--|-------------------------|
| <b>1.</b> | Describe the mechanism of fertilization.                       | <b>10</b>               |
|           | <b>OR</b>  |                         |
|           | a) Blastulation.   | <b>5</b>                |
|           | b) Classification of egg on the basis of distribution of yolk. | <b>5</b>                |
| <b>2.</b> | Write a detail account on morphogenic movement of frog.        | <b>10</b>               |
|           | <b>OR</b>  |                         |
|           | a) Development of chick upto primitive streak formation.       | <b>5</b>                |
|           | b) Development of allantois.                                   | <b>5</b>                |
| <b>3.</b> | Write an essay on spermatogenesis.                             | <b>10</b>               |
|           | <b>OR</b>  |                         |
|           | a) Placentation in mammals.                                    | <b>5</b>                |
|           | b) Types of implantation.                                      | <b>5</b>                |
| <b>4.</b> | Write an essay on contraceptives.                              | <b>10</b>               |
|           | <b>OR</b>  |                         |
|           | a) Artificial insemination.                                    | <b>5</b>                |
|           | b) Semen bank.   | <b>5</b>                |
| <b>5.</b> | Write a short note <b>any ten.</b>                             | <b>10</b>               |
|           | i) Oligolecithal Egg.  | ii) Cortical Reaction.  |
|           | iii) Radial cleavage.  | iv) Epiboly.            |
|           | v) Hensen's node.  | vi) Yolk sac.           |
|           | vii) Interstitial cells.                                       | viii) Graffian follicle |
|           | ix) Podocyte.  | x) IVF                  |
|           | xi) Stem cell.   | xii) Tubectomy.         |

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