

USCZOT07 - 13 - Core Paper-VII - Zoology Paper-I : Developmental Biology

P. Pages : 1

Time : Three Hours



GUG/W/22/12004

Max. Marks : 50

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

1. Describe in details classification of egg. 10
- OR**
- Write notes on:
- a) Types of blastulation. 5
- b) Significance of fertilization. 5
2. Write an essay on development of extraembryonic membranes in chick. 10
- OR**
- a) Emboly. 5
- b) Formation of primitive streak. 5
3. Describe in details implantation and their types. 10
- OR**
- a) Structure of sperm. 5
- b) Chorionic placenta. 5
4. Describe the mechanism and significance of apoptosis. 10
- OR**
- a) In-vitro fertilization. 5
- b) Artificial insemination. 5
5. Write short notes **any ten** 10
- | | |
|-----------------|---------------------|
| i) Cleavage | ii) Antifertizine |
| iii) Sea urchin | iv) Invagination |
| v) Nurse cell | vi) Archenteron |
| vii) Ovum | viii) Hyaluronidase |
| ix) Blastocyst | x) Cervical cap |
| xi) Stem cells | xii) Test tube baby |
