

Bachelor of Science (S.Y. B.Sc.) Third Semester (Old)
B. Sc 2332 - Zoology Paper-II (Developmental Biology)

P. Pages : 2

Time : Three Hours



GUG/W/18/1279

Max. Marks : 50

- Notes : 1. All questions are compulsory carrying equal marks.
2. Draw well labelled diagram whenever necessary.

1. Give brief account of types of eggs based on amount and distribution of Yolk. **10**

OR

- a) Invagination and involution. **5**
b) Formation of primitive streak in chick. **5**

2. Write an essay on process of spermatogenesis. **10**

OR

- a) Types of stem cells. **5**
b) Surgical contraceptive. **5**

3. Attempt the following. **10**

- a) Fertilizin and Antifertilizin reactions.
b) Epiboly.
c) Structure of Egg.
d) Uses of stem cells.

OR

- e) Thelytoky. f) Allantois.
g) Types of Implantation. h) Test tube baby.

4. Attempt the following. **10**

- a) Chemical composition of Yolk.
b) Formation of primitive streak.
c) Functions of placenta.
d) Semen Bank.

OR

- e) Acrosome formation.
- f) Amnion.
- g) Formation of spermatids.
- h) Oral contraceptive.

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

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|------------------------------|-------------------------------|
| i) Macrolecithal eggs. | ii) Complete parthenogenesis. |
| iii) Amphimixis. | iv) Blastocoel. |
| v) Involution. | vi) Amion. |
| vii) Follicle cells. | viii) Uterine milk. |
| ix) Placenta. | x) Totipotency. |
| xi) Artificial Insemination. | xii) IUCD. |
