

S.Y.B.Sc. (With Credits)-Regular-Semester 2012 Sem. III
B.Sc 2332 - Zoology Paper - II (Developmental Biology)

P. Pages : 2

Time : Three Hours



GUG/W/16/3351

Max. Marks : 50

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

1. Explain in detail the types of Blastulation. **10**
- OR**
- a) Gastrulation in Frog. **5**
- b) Amnion **5**
2. Write a note on process of Oogenesis. **10**
- OR**
- a) Semen bank. **5**
- b) Techniques of Artificial inseminations. **5**
3. Attempt the following. **10**
- a) Chemical Composition of Yolk.
- b) Formation of primitive streak.
- c) Chorio – Vitelline placenta.
- d) Advantages of IVF.
- OR**
- e) Types of Cleavage.
- f) Chorion.
- g) Chorio – allantoic placenta.
- h) Applications of Stem cells.
4. Attempt the following. **10**
- a) Acrosome reaction.
- b) Functions of Yolk Sac.
- c) Syndesmochorial Placenta.
- d) Embryo Transfer.

OR

- e) Significance of fertilization.
- f) Allantois.
- g) Endotheliochorial placenta.
- h) Female Contraceptives.

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

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- i) Mesolecithal egg.
- ii) Blastodisc
- iii) Radial cleavage.
- iv) Primitive knot.
- v) Subgerminal Cavity.
- vi) Hensen's node.
- vii) Corona radiata.
- viii) Nurse Cell.
- ix) Zonary placenta.
- x) Pluripotent
- xi) Cryopreservation.
- xii) Embryo culture.
