

M.Sc. - I (Zoology) (CBCS Pattern) Semester-II
PSCZOOT08 - Paper-VIII - Advanced Developmental Biology

P. Pages : 1

Time : Three Hours



GUG/S/25/11227

Max. Marks : 80

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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. Describe in detail the types, structure, functions and hormones of placenta. 16

OR

Write notes on:

- a) Implantation in Mammals.
- b) Morphogenetic and biochemical mechanism in Amphibia.

2. Write an essay on regeneration in vertebrates. 16

OR

Write notes on:

- a) Apoptosis.
- b) Aging.

3. Give an account of multiple ovulation and embryo transfer technology. 16

OR

Write notes on:

- a) Application of embryonic stem cells.
- b) Cloning of animals by nuclear transfer.

4. Write an essay on classical contraceptive techniques. 16

OR

Write notes on:

- a) Immunocontraception.
- b) Role of mutants and transgenics in human welfare.

5. Attempt the following. 16

- a) Types of foetal membrane.
- b) Polymorphism in Honey bees.
- c) GIFT.
- d) Anti-spermatogenic compounds.
