

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

P. Pages : 1

Time : Three Hours



**GUG/W/23/11227**

Max. Marks : 80

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

1. Write an essay on Foetal membranes- types structure and functions. **16**

**OR**

- a) Write Placenta- types, structure, functions.
- b) Write Metamorphosis in Amphibia.

2. Write an essay on Regeneration in vertebrates: tail, limb. **16**

**OR**

- a) Write about Apoptosis- mechanism and significance.
- b) Write about Polymorphism (caste differentiation) in insect (Termites).

3. Write an essay on Multiple ovulation and embryo transfer technology (MOET). **16**

**OR**

- a) Write about Application of embryonic stem cells, clinical and economic significance.
- b) Write about Cloning of animals by nuclear transfer.

4. Write an essay on Immunocontraception- fertilization, inhibition and pregnancy termination. **16**

**OR**

- a) Write about Anti-androgen and anti-spermiogenic compounds (LDH-CY and SP-10).
- b) Write about Role of mutants and transgenics in human welfare.

5. Attempt the following. **16**

- a) Implantation in Mammals.
- b) Ageing.
- c) (ICSI, GIFT).
- d) (LDH-CY and SP-10).

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