

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

P. Pages : 1

Time : Three Hours



GUG/W/24/11227

Max. Marks : 80

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

1. Describe in detail types and functions of Placenta? 16

OR

Write Notes On:

- a) Foetal Membrane 8
- b) Implantation in Mammals 8

2. Write an essay on polymorphism in Insects. 16

OR

Write Notes on:

- a) Apoptosis. 8
- b) Regeneration of Tail & Limb. 8

3. Describe in detail different applications of Embryonic Stem cells and add a note on their economic importance. 16

OR

Write Notes on:

- a) Embryo Transfer Technique. 8
- b) Animal cloning by Nuclear Transfer. 8

4. Explain in detail the role of Mutant and transgenic in Human Welfare. 16

OR

Write notes on:

- a) Immunocontraception. 8
- b) Classical contraceptive Techniques. 8

5. Attempt the following 16

- a) Hormonal control of Metamorphosis in Amphibia.
- b) Mechanism of Ageing
- c) Embryonic Sexing
- d) Anti Spermiogenic Compound.
