

M.Sc.(Zoology) CBCS Pattern Semester-I
PSCZOOT04 - Paper-IV : Advanced Reproductive Biology

P. Pages : 1

Time : Three Hours



GUG/W/23/11178

Max. Marks : 80

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

1. Describe in detail various methods of Asexual and sexual reproduction in protozoa. **16**

OR

Write notes on:

- a) Regeneration in Hydra & Dugesia.
- b) Partial and complete metamorphosis.

2. Write an Essay on Spermatogenesis. **16**

OR

Write notes on:

- a) Cytological events of Fertilization.
- b) Oogenesis

3. Give an account on accessory sex glands in mammals. **16**

OR

Write notes on:

- a) Semen Biochemical composition.
- b) Pheromones.

4. Give an account on Invitro Fertilization and its significance. **16**

OR

Write notes on:

- a) Cryopreservation of Gametes.
- b) Neurohormonal control of Fish Reproduction.

5. Attempt the following- **16**

- a) Vitellogenesis in Insects.
- b) Types of cleavage.
- c) Sexual behaviour in Mammal.
- d) Organizer concept.
