

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

P. Pages : 1

Time : Three Hours



GUG/W/24/11178

Max. Marks : 80

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

1. Write an essay on regeneration in Hydra. 16

OR

- a) Sexual reproduction in protozoa. 8
- b) Complete metamorphosis. 8

2. Give detail account on spermatogenesis. 16

OR

- a) Oogenesis. 8
- b) Cytological events of fertilization. 8

3. Describe in details pheromones and sexual behaviours in mammals. 16

OR

- a) Biochemical composition of Semen. 8
- b) Male accessory sex glands in mammals. 8

4. Explain in detail In Vitro Fertilization (IVF). 16

OR

- a) Mechanism of vitellogenesis in fishes. 8
- b) Cryopreservation of gametes. 8

5. Attempt the following.

- a) Complete metamorphosis. 4
- b) Blastulation 4
- c) Sperm capacitation. 4
- d) Organizer. 4
