



THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)
Re-accredited (2nd Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

Backlog Arrear Examination, March 2021

PGZ 4423

Developmental Biology

Time: 3 Hours

Marks: 75

Answer any Five Questions

(5X15=75)

1. Draw a neat labelled diagram of seminiferous tubule and explain the process of spermatogenesis.
2. With the help of diagram describe the process of oogenesis in detail.
3. Discuss the fertilization process and its mechanism with suitable illustrations.
4. Explain gastrula formation during frog development .Draw suitable Sketches.
5. With a detailed account on embryonic induction with suitable experimental evidences.
6. What is regeneration? Write about its nature and types. Describe the process of regeneration in an amputated amphibian limb with diagram.
7. In-vitro fertilization is a blessing to infertile couple- Discuss