



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 5522

ANIMAL AND PLANT BIOTECHNOLOGY

TIME: 3hrs

Marks: 75

Answer any Five Questions

(5x15 = 75)

1. What is embryo rescuing technique? Mention the suitable in vitro procedures needed for culturing chick embryo.
2. Explain any three transgenic animals and add note on its merits and demerits.
3. Describe the methods of in vitro fertilization and write a comment on Cloning of farm animals.
4. What is MS Medium? Give the bench work steps for surface sterilization of explants for callus formation.
5. Discuss the methods of isolation , purification , fusion and culturing protoplast.
6. Elaborate the significance of Agrobacterium mediated gene transfer in dicot plants.
7. High light the principles and applications of transgenic plants using Bt gene.
