



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

ZOO 2433/ 2445

Genetics

Time: 3 hrs

Max: 75 marks

Answer any Five questions

(5X15=75)

1. Explain Dihybrid cross citing suitable examples.
2. Explore the dosage compensation in drosophila.
3. Describe any two diseases related to Inborn error of metabolism.
4. Elaborately discuss the mechanism, types and significance of crossing over.
5. Furnish the genetics behind the nest cleaning behaviour in honey bees.
6. Explain how gene transfer occurs in bacteria with the help of bacteriophage.
7. a) Depict any five symbols used in pedigree analysis.
b) List out the various positive eugenic measures.
