



# THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Re-accredited (2<sup>nd</sup> Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

## Backlog Arrear Examination, March 2021

### Genetics and Evolution

PGZ 4425

Marks: 75

Time: 3 Hrs

Answer any five of the following (5 x15 =75)

1. Explain any three gene interactions with example.
  2. Describe any two mechanisms of gene exchange in bacteria.
  3. List any five abnormalities caused due to chromosome number and discuss any two abnormalities.
  4. What are the different modes of selection? Explain.
  5. Explain the various post zygotic isolating mechanisms.
  6. Bring out the cultural evolution of man.
  7. Define Hardy- Weinberg law and explain the factors that influence it.
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