



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 291

BIOPHYSICS & MOLECULAR BIOLOGY

Max: 75 marks

Answer any FIVE questions

(5 x 15 = 75)

1. Discuss the structure of a mammalian eye and the mechanisms of photoreception.
2. Write the principle, components and applications of spectrophotometer.
3. Describe the molecular events involved in the replication of DNA in prokaryotes.
4. Explain the principle and applications of PCR.
5. Narrate the molecular mechanisms involved in DNA recombination.
6. Discuss the stages and molecular events in prokaryotic transcription.
7. Describe the double helical structure of DNA proposed by Watson and Crick.
