



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 5430

Nanobiology

Max. : 75 marks

Time: 3 hours

Answer any **FIVE** questions.

5 X 15 = 75

1. Enlist the unique properties of matter at nanoscale.
2. Describe any three techniques used to analyse nanoparticles.
3. Give a detailed account on the properties and fabrication of Quantum Dots.
4. Strand displacement energizes DNA nanomotors and DNA tweezers – substantiate.
5. List out the classes and types of biosensors. Add a note on any two applications of the biosensors.
6. Explain the uses of nanostructures in diagnosis and therapy of cancer.
7. Write down the properties and uses of any three bionanoproducts.
