



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

Course Code: MIC 2537/2503

Course Title: BIOINSTRUMENTATION

Max Marks: 75

Exam Date: 12.03.2021

Section A

Answer any FIVE questions

(5×15=75)

1. Explain the principle, methodology of gel electrophoresis with suitable illustrations
2. Write down the sample applications and working mechanism of paper chromatography.
3. Describe the separation of multiple components mixture by density gradient centrifugation.
Add a note on its application.
4. With neat illustration, explain the levels of Biosafety Cabinet to maintain aseptic condition in a microbiological laboratory.
5. Explain the working mechanism of AAS and their application
6. Explicit the principle, working mechanism and application of GM counter.
7. UV – visible spectrophotometer gives better resolution than a colorimeter – justify