



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: PHS 3559

Time: 3 hr

Course Title: Medical Physics

Max.Mark: 75

Part-A

Answer any FIVE QUESTIONS

(5x15=75)

1. Draw the block diagram of a biomedical instrumentation system and briefly explain its components.
2. With neat block diagram explain the working of an ECG.
3. Draw the mechanical chopper amplifier and explain its working.
4. Explain in detail the heart- lung machine with a neat diagram.
5. Describe the various applications of laser in medicine.
6. Brief on electrodes. Discuss the types of surface and needle electrodes.
7. Explain the working of X-ray with neat diagram.
