



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: PHY 3677

Time: 3Hrs

Course Title: Microprocessor & Communication Systems

Max: 75 marks

PART - A

Answer ANY FIVE questions

(5 X 15 = 75)

1. With necessary diagrams explain the architecture of 8088 microprocessor.
2. Explain the arithmetic instructions used in 8088 microprocessor with relevant examples.
3. Describe the frequency spectrum of an amplitude modulated wave.
4. With a neat block diagram describe the working of a tuned radio frequency receiver and superheterodyne receiver.
5. Explain Automatic Gain Control and describe the working of a simple diode detector with a neat circuit diagram.
6. Explain Orbital perturbations and Satellite stabilization.
7. Describe the different types of satellite orbits in detail.
