



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

PHY 1415

Waves

Time: 2Hrs

Max.Marks:60

Answer any FOUR questions:

(4 X 15 = 60)

1. Explain the terms: a.) Frequency and Wavelength b.) Transverse and longitudinal waves c.) Phase angle & wave velocity
2. Discuss about Simple Harmonic Motion with an example in detail.
3. Write notes on: a) Huygens' principle b.) Diffraction c.) polarization
4. Draw a neat diagram of a camera and explain the principle and working.
5. Give a detailed description on the electromagnetic spectrum and mention their applications.
6. Write a note on Waveguide and also explain about Satellite communications.