



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 2573

Time: 3 hours

Course Title: Analog Electronics

Max. Marks: 75

I. Answer **ANY FIVE** questions.

(5 × 15 =75)

1. Describe the working of half wave and full wave rectifier with its neat circuit diagram and its input and output waveforms.
 2. Explain the working of the following with a neat circuit diagram and waveforms.
(a) positive and negative clipper (b) positive and negative biased clipper.
 3. Explain in detail the common emitter amplifier with suitable circuit diagram and hybrid parameters.
 4. With necessary circuit diagram explain the working of a class B amplifier.
 5. Describe the working of Hartley and Colpitt's oscillator with its neat circuit diagrams.
 6. Describe the working of inverting and non inverting amplifier and derive the expression for gain.
 7. Describe the characteristics of JFET with its necessary circuit diagrams and graphs.
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