



# THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)  
Re-accredited (2<sup>nd</sup> Cycle) by NAAC with Grade “A”, CGPA – 3.46 on a 4-point scale

## Backlog Arrear Examination, March 2021

**Course Code: PHS 1556**

**Time: 3 hr**

**Course Title: Analog Electronics**

**Max.Mark: 75**

### Part - A

**Answer any five of the following questions**

**5 X 15 = 75**

1. Discuss the Kirchoff's current & voltage law with necessary simple diagrams.
2. Explain Forward bias PN Junction and Reverse bias PN Junction with V/I Characteristics.
3. Explain Zener diode and its V/I Characteristics.
4. Explain the input & output characteristics of a common emitter connection with neat circuit arrangement and graphical representation.
5. Describe Hartley Oscillator with proper diagram.
6. Explain Astable Multivibrator and its wave forms.
7. Explain (i) Non inverting amplifier (ii) differentiating amplifier.

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