



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 1201/1271

Time: 2 Hrs

Course Title: Basic Electronics

Max. Mark: 60

Answer any FOUR of the following questions

4x15=60

1. Explain current, resistance and power with waterflow analogy.
2. Brief out the following
 - a) Resistor
 - b) Capacitor
 - c) Inductor
 - d) Potential difference.
3. Describe the construction and working of a transformer.
4. Explain different types of switches and their uses.
5. State and prove De-Morgan's theorem.
6. Discuss in detail the basic logic gates with circuit symbol, logical expression and truth table.
