



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

RPS 1218/1236

INTRODUCTION TO SCIENTIFICAL THINKING

Marks: 60

Time: 2Hrs

Answer any **FOUR** of the following questions

4*15=60

1. Distinguish inductive and deductive reasoning with examples of your own.
2. Why scientific thinking is based on induction? Explain.
3. How scientific knowledge is supported by the philosophy of empiricism?
4. Distinguish philosophical thinking and scientific thinking.
5. Discuss the scope and features of scientific method.
6. What is objectivity in scientific thinking? Specify its importance in scientific knowledge.
7. How scientific theories are arrived at? What is Thomas Kuhn's position on this issue?