



# 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

### Elements of Philosophy and Science

RPS 1234

Time: 2 hrs

Total Marks: 60

Answer any **FOUR** of the following questions in about five pages each. **(4x15=60)**

1. State the problem of induction and the various responses to solve this problem
2. Illustrate Hume's conception of causal laws as accidental generalization.
3. Distinguish inductive and deductive reasoning with suitable example
4. Discuss the paradox of the ravens and What is its implications on scientific confirmation
5. Analyse Hempel's covering law model of scientific explanation
6. Examine Popper's falsifiability as a criterion of empirical method