



# 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

RPS 1233

Understanding the Universe and infinity

Time: 2 hrs

Total Marks: 60

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

1. Describe the various conceptions of Universe through the ages.
2. Explain the methods of measuring the distances in the Universe.
3. Give a detailed account of the solar family, the Milky Way, galaxies and the interstellar and intergalactic space.
4. Describe the process of birth and death of a star
5. Examine the theories of the origin of Universe.
6. Analyse the conception of infinity.