



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: PHS 2445

Time: 3 hr

Course Title: Astrophysics & Relativity

Max.Mark: 75

Part – A

Answer any five of the following questions

5 X 15 = 75

1. Discuss the solar and lunar eclipses with suitable diagrams.
2. Describe the spectral classification of star in detail.
3. Discuss the various reflecting telescopes with diagram.
4. Explain the theory of IR and Xray telescopes
5. Describe types of Galaxies
6. Explain Open, Close and Steady state Universe
7. Derive the expressions of Lorentz Transformation
