



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 3594/3494
COURSE TITLE: Astronomy & Astrophysics

Time: 3 hrs
Max.Mark: 75

Part - A

Answer any five the following questions:

5x15=75 marks

1. Discuss the developmental astronomy in the earlier centuries in detail.
2. Describe the occurrence of seasons with diagrams.
3. Explain in detail on the classification of stellar spectra.
4. Describe the different stages in death of stars in detail.
5. Explain the different types of galaxies with neat sketches.
6. State Jeans assumptions and obtain the expression for the Jeans mass.
7. Discuss the various theories for the evolution of universe.
