



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

PHS 3287

HAM Radio practice

Time: 2 hrs

Max. Marks: 60

PART – A

Answer any four of the following questions.

4 x 15 = 60

1. Differentiate the following.
 - a. conductors and insulators
 - b. permanent magnets and electromagnets
2. Compare and contrast series and parallel resonant circuits with suitable diagrams.
3. Describe the functioning of a half-wave rectifier with a neat diagram.
4. What is an amplifier? With a neat circuit diagram, explain how does a transistor amplifier work?
5. Explain the types of propagation of electromagnetic waves.
6. Explain in detail the functioning of AM transmitter.
