

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: PGP 4429 Time: 3 Hrs

Course Title: Instrumentation Max. Mark: 75

Answer any Five of the following questions

5X15=75

- 1. Discuss dynamic characteristics of a measurement system in detail.
- 2. Elaborate the theory of response of a second order system.
- 3. With suitable example discuss the method of least square fit.
- 4. Give the theory of strain gauges in detail.
- 5. Describe the construction and theory of piezo electric transducers.
- 6. Explain some of the operational amplifier circuits in instrumentation.
- 7. Elaborate binary weighted resistance D/A converter with circuit diagram.
