

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: COS 1487 TIME: 3 Hrs

COURSE TITLE :: Digital Principles And Computer Organization MARKS : 75

PART - A

Answer ANY Five questions.

5 * **15** = **75**

1. Explain a)logic gates with truth table and logic diagram.

b)Boolean algebra Laws.

- 2. Simplify the Boolean expression AC'+B'D+A'CD+ABCD in
 - a) Sum of products b). Product of sums
- 3. Explain about Half adder and full adder circuit with neat diagram.
- 4. Discuss about Multiplexer and Demultiplexer
- 5. Explain about JK flip flop's with neat diagram
- 6. Explain the types of computer registers.
- 7. Write about Auxiliary memory with neat diagram.