

# Computer Architecture

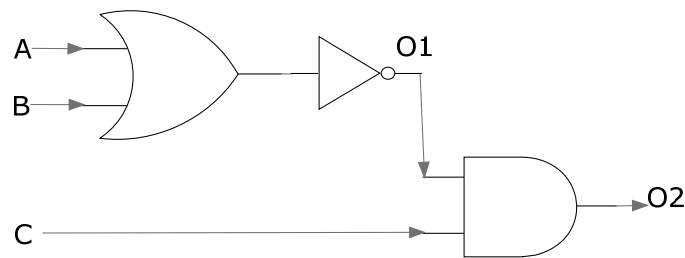
## Assignment 1

**Due: Next week section. (one day before if you submit by email)**

**Notes: This assignment is individual assignment, every student should complete it by himself.**

- 1. (10 points ) Logic Gates revision: (if you need help, Referee to William stalling’s book, Chapter 20 )**

**a. Create the truth table for the following circuit:**



**b. Draw a logic circuit for the following operation.**

$$(A \oplus B) \cdot \bar{C}$$

- 2. (10 points) Semiconductors. (If you need help, Referee to William stalling’s book, Chapter 5)**
- Give a short description for DRAM and SRAM, and explain the Advantage, Disadvantage, and Usage of each.**
  - Compare between SDRAM, DDR, and RDRAM with respect to Clock frequency, Transfer time, Access time, and Pin count.**