

EC 2.101 - Digital Systems and Microcontrollers

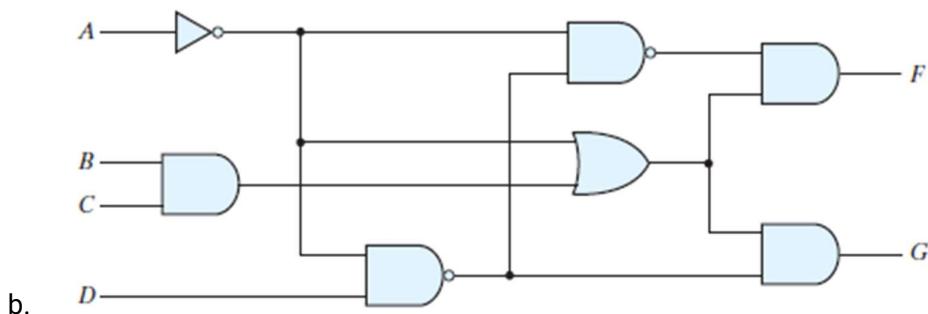
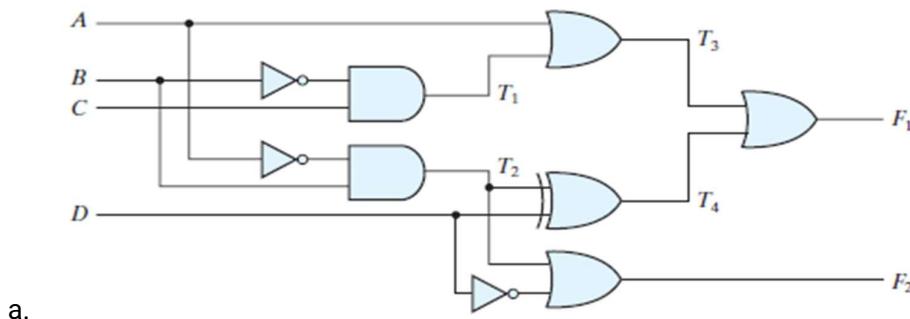
Practice Sheet 3 (Lec 1 – Lec 17)

Q1. Design a combinatorial circuit for

- Binary-to-Gray converter
- Gray-to-Binary converter

Note: Gray code/ reflected binary code (RBC), is an ordering of the binary numeral system such that two successive values differ in only one bit (binary digit).

Q2. Obtain the Simplified Boolean Expressions for the following outputs



Q3. Given 4-bit input message, design a circuit that generates:

- Even parity bit
- Odd parity bit