

Faculty of Computer & Information Sciences Ain Shams University

CHW 261: Logic Design Tutorial Sheets 2020-2021 Dr. Manal Tantawi & Dr. Mirvat Al-Qutt



Assignment B

- 1) Perform the following subtractions $(2267)_{11}$ $(1777)_{11}$
- 2) Perform the subtraction of the following unsigned binary numbers using 1's complement
 - a. 11010 10000
 - b. 100 11000
- 3) Perform the subtraction of the following unsigned binary numbers using 2's complement
 - a. 11010 10000
 - b. 100 11000
- 4) Simplify the following Boolean expressions to a minimum number of literals:

$$xyz' + x'yz + xyz + x'yz'$$