## **Birzeit University**

## Department of Electrical & Computer Engineering

Digital Systems – ENCS 2340 Second Semester 2024/2025

Quiz #2

Name: Sondos Hammac

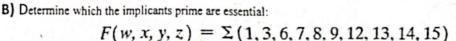
11.11.2023

Student Nr.: 123052 /

A) Simplify the following Boolean expressions to a minimum number of literals xyz + x'y + xyz'

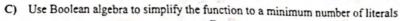
- a) x+yz
- 1 \$ 3 xy (z+z1)
- x x'

- b) xyz'
- c) x'y
- (3)
  - 3 y(x+x)
- e) none of the above



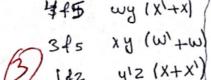


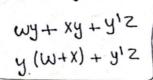
- wy', xy, w'x'z
  - ב) אר וויילים
  - d) wy'
- e) none of the above



$$F = xy'z + x'y'z + w'xy + wx'y + wxy$$

- a) y'z + xy + wy 61it
- - c) y'z
- d) xy + wy
- e) none of the above





+ wx + wy'

prime

prime

prime

prime

good luck

