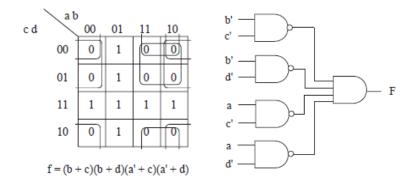
## Quiz Unit 7

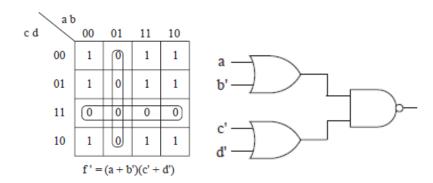
- 1. Implement f (a, b, c, d) =  $\sum$  m (3, 4, 5, 6, 7, 11, 15) as a two-level gate circuit, using a minimum number of gates.
  - (a) Use AND gates and NAND gates.

Sol.)



(b) Use OR gates and NAND gates.

Sol.)



(c) Use NAND gates only.

Sol.)

