Day: Date:

Assignment #02

Submitted by:

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Submitted to:

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'B' Software Engineering

Department :

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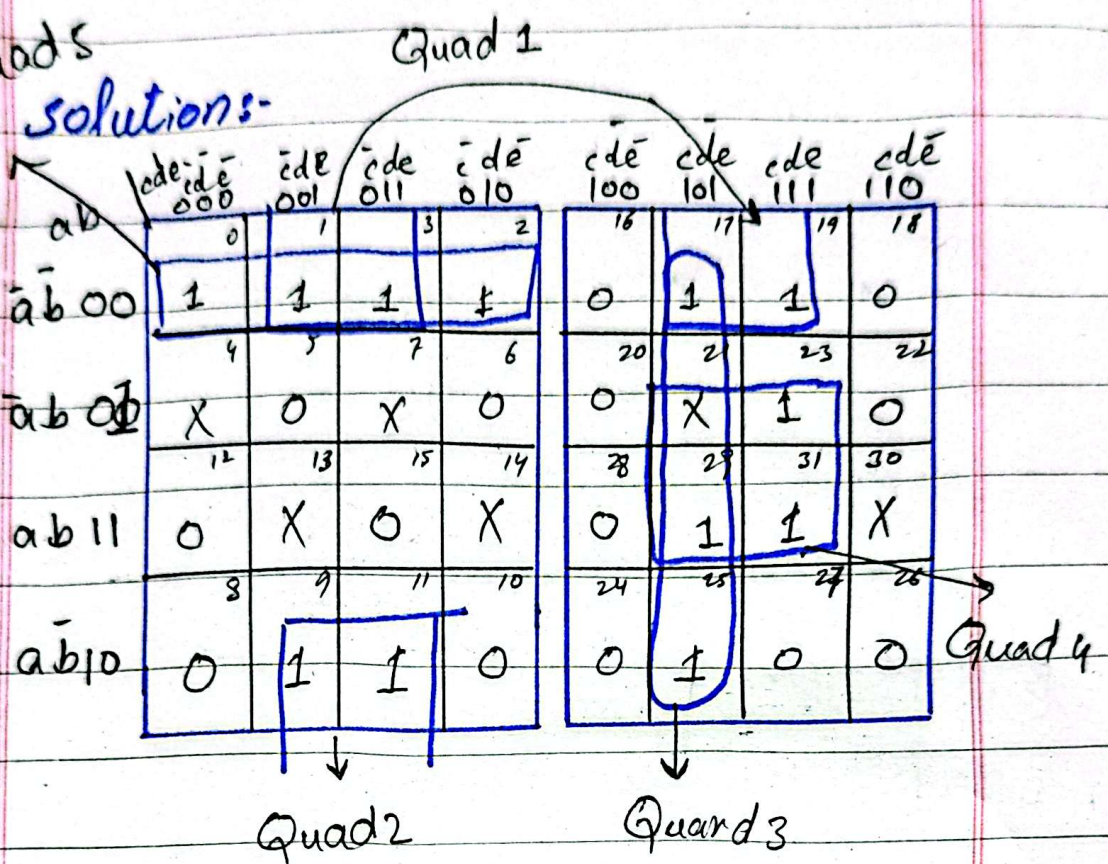
Day: Date:

Question. NO1

Given the boolean function $Q(a,b,c,d,e)$ represented in canonical from, where

$Q(a,b,c,d,e) = \Sigma m(0,1,2,3,9,11,17,19,23,25,29,31) + d(4,7,13,14,21,30)$

Quads solutions:-



$Q = \bar{a}.\bar{b}.\bar{e} + \bar{b}.\bar{c}.e + c.\bar{d}.e + b.c.e + \bar{a}.\bar{b}$

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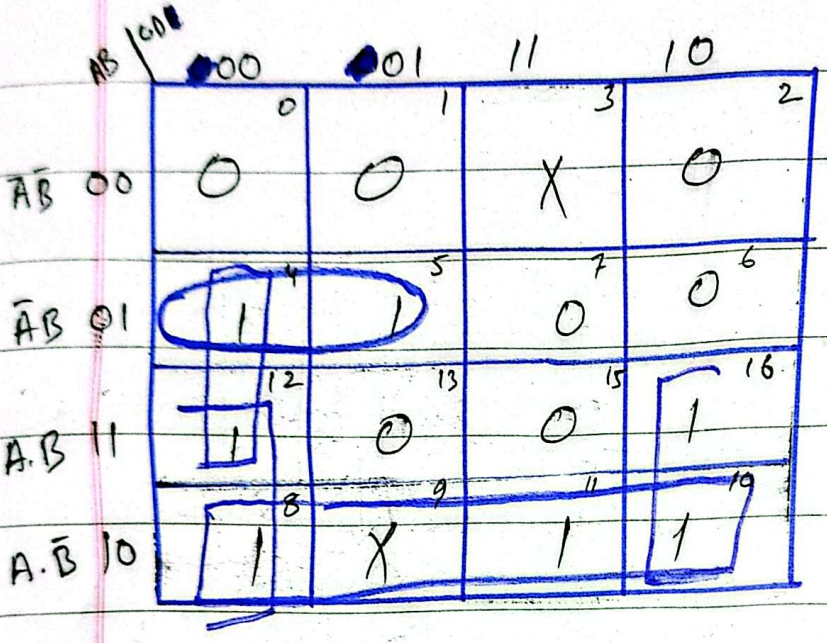
Question.NO2

Using the K-map provide, Simplify the following Boolean function based on the variable A, B, C and D.

Sol:-



$$F = B.C' + B.C'.D' + A.D' + A'.B'$$