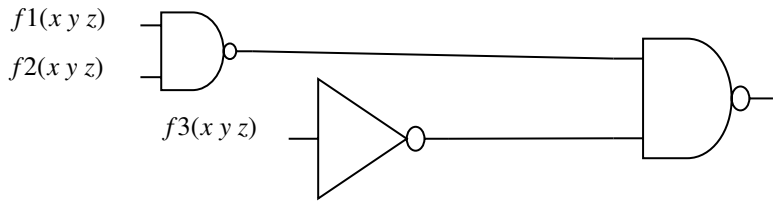
GATE QUES - CS 2002
SOLUTION

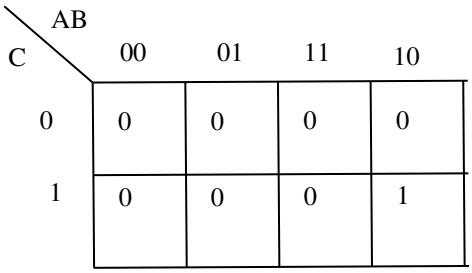
1 QUES

1. Consider the following logic circuit where inputs are functions f1,f2,f3 and output is ?:



TRUTH - TABLE

x	y	z	y(output)
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0



The final expression is of output is Y = F(x,y,!z)

Logic for the code will be Y = X&&Y&&!Z