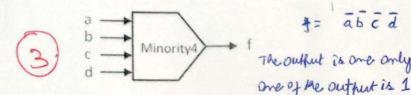


Left neighbour	Your Name	Your Entry No.	Right neighbour
-	AMAN AGRAWAL	2015 CS 1 02 10	ANKUR SHARMA

COL215 Digital Logic and System Design Quiz 1 (Set B) 12.08.2016

Q 1. Consider a 4 input gate called "Minority4", which outputs a 1 if and only if the number of inputs equal to 1 is strictly less than those equal to 0. (a) Represent its function as a canonical SoP expression. (b) Derive its minimum SoP expression using Karnaugh Map.



The kmap has 4 pairs

Please Twon over for working

Q 2. Design a circuit with inputs and outputs as shown. It outputs a number k on C where k is the number of clock periods between a pulse on A and a pulse on B.

