

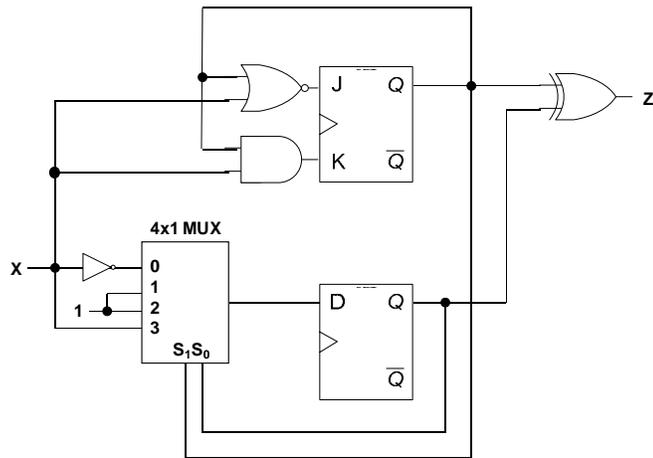
King Fahd University of Petroleum and Minerals
 College of Computer Sciences and Engineering
 Department of Computer Engineering

COE 202 – Fundamentals of Computer Engineering (T102)

Homework # 05 (due date & time: Saturday 21/05/2011 during class period)

*** Show all your work. No credit will be given if work is not shown! ***

Problem # 1 (50 points): Derive the state diagram for the following sequential circuit. *Show all steps of the derivation.*



Problem # 2 (50 points): Two positive edge-triggered D flip-flops are connected as shown in the figure. Both flip-flops are initialized to 0 at the beginning. Fill in the timing diagram for the two outputs Q1 and Q0.

