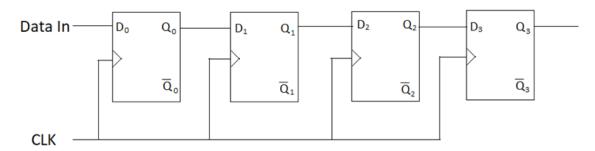
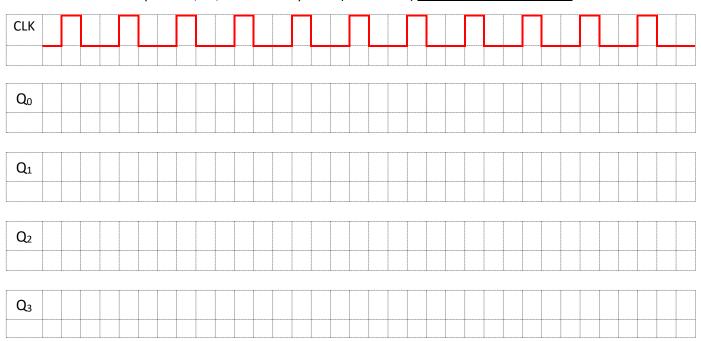
ET-540 – Introduction to Digital Computing

Homework 8 - Shift Registers

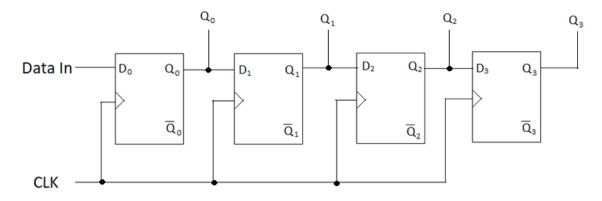
Question 1) For the following shift register, if the input data is 110010112,



What would be the output data, Q₃, at the tenth pulse? (Show work)

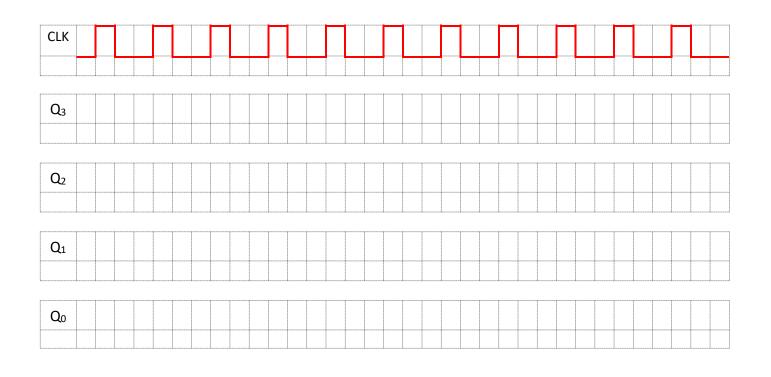


Question 2) For the following shift register, if the input data is 10110011₂,



What would be the output data at the sixth pulse?

 Q_3 Q_2 Q_1 Q_0



Question 3) First draft for writing assignment

Imagine that you have to write a letter to the chairperson of the Department of Engineering Technology about the technical difficulties that you have to face with online learning. In your letter, write the points, by order of importance starting with the most important, that describe the need to create new technology and / or methods to improve students' participation in online learning?