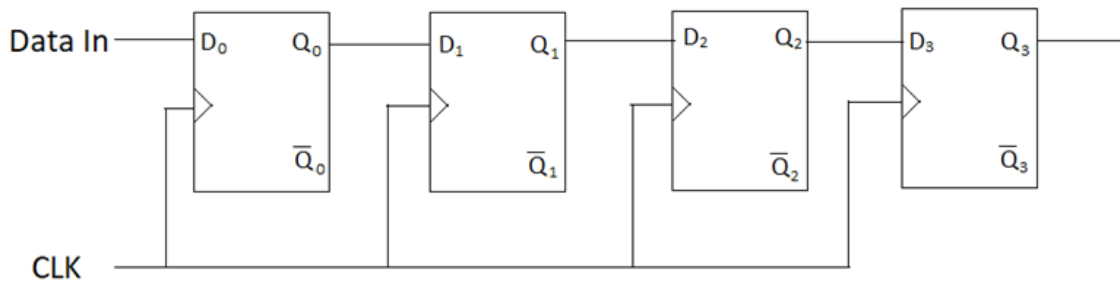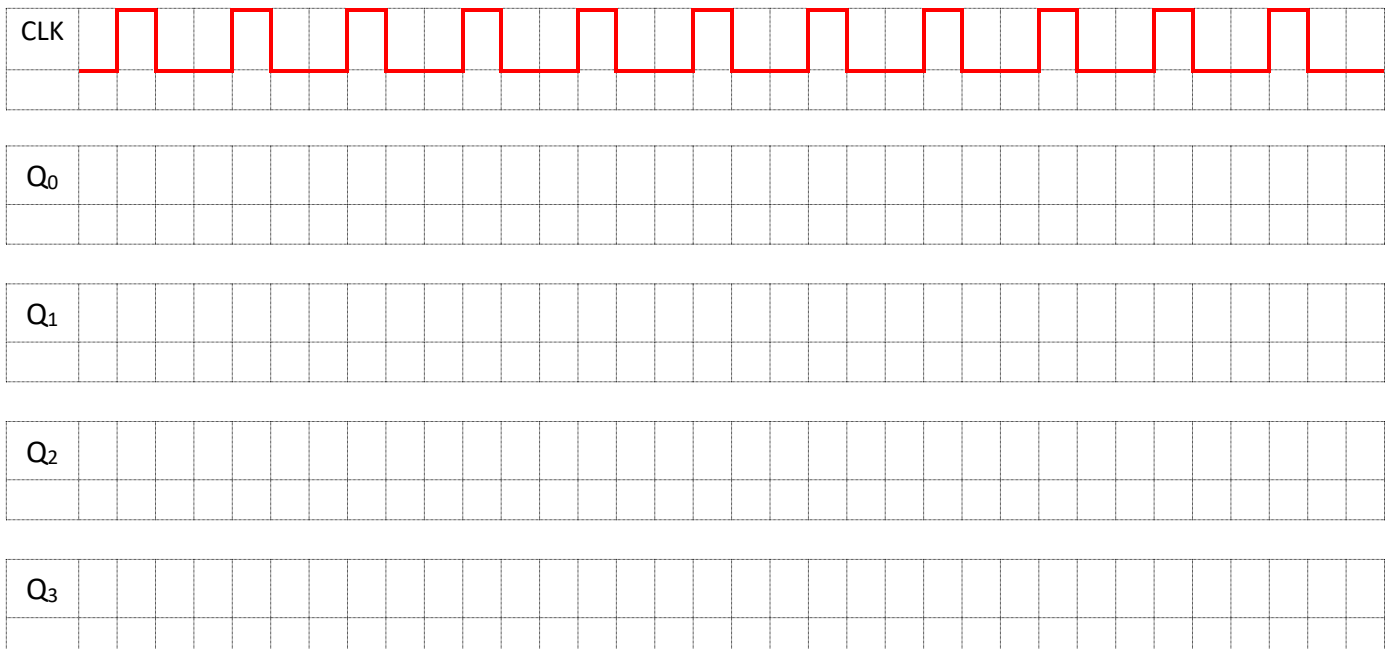# Introduction to Digital Computing
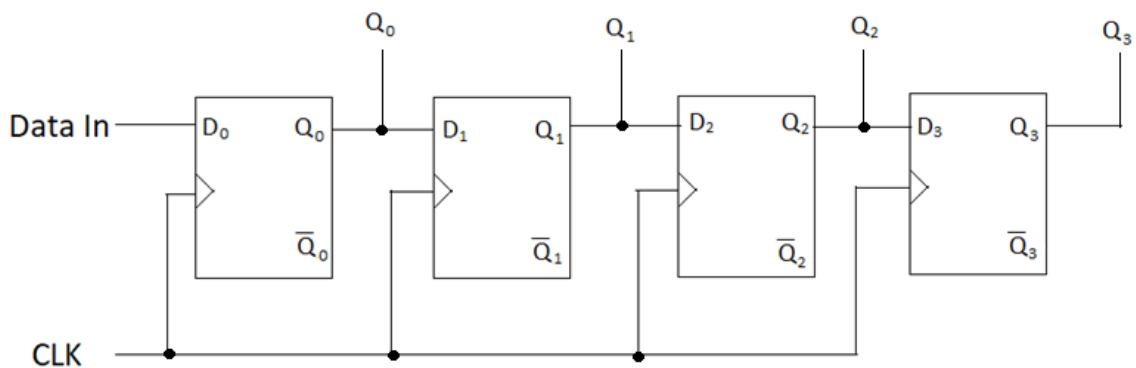Homework 10 - *Shift Registers*

Question 1) For the following shift register, if the input data is 11001011_2,

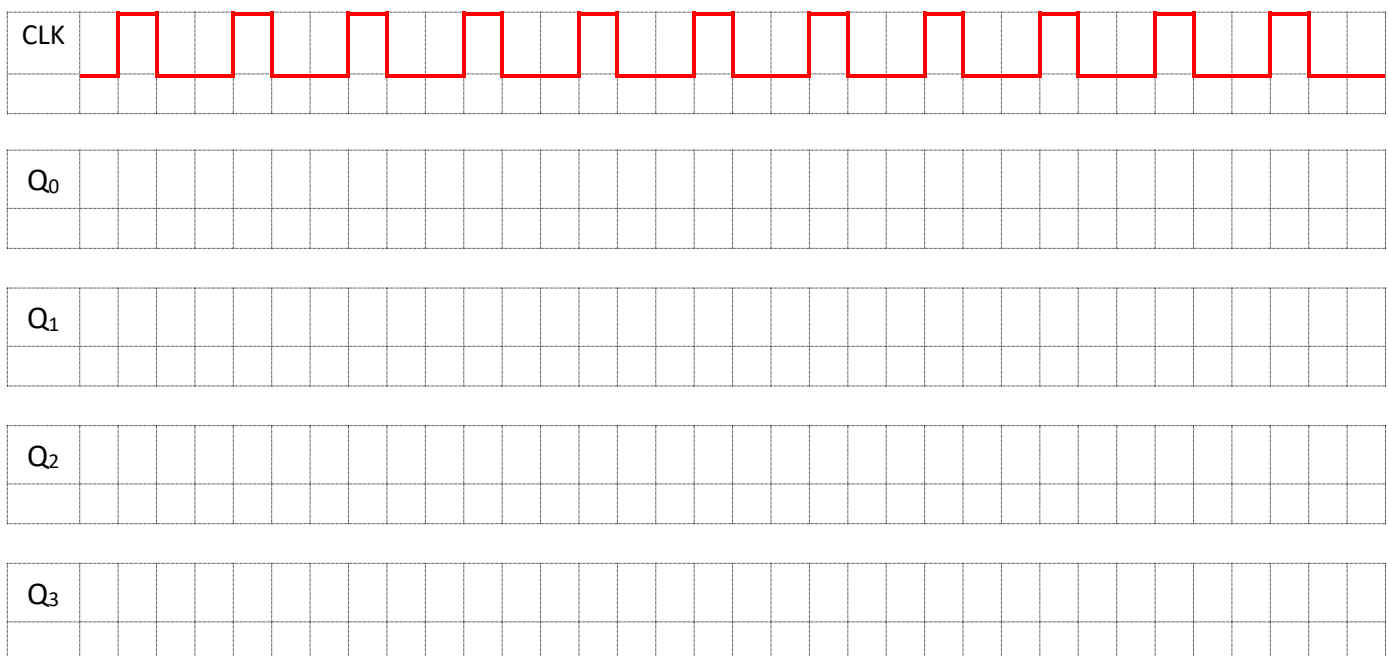

What would be the output data, Q_3, at the tenth pulse? (Show work) _____

Question 2) For the following shift register, if the input data is 10110011_2,

What would be the output data at the sixth pulse? Q_3_____ Q_2_____ Q_1_____ Q_0_____

CLK

Q_0

Q_1

Q_2

Q_3

Question 3) Technical writing practice

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

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