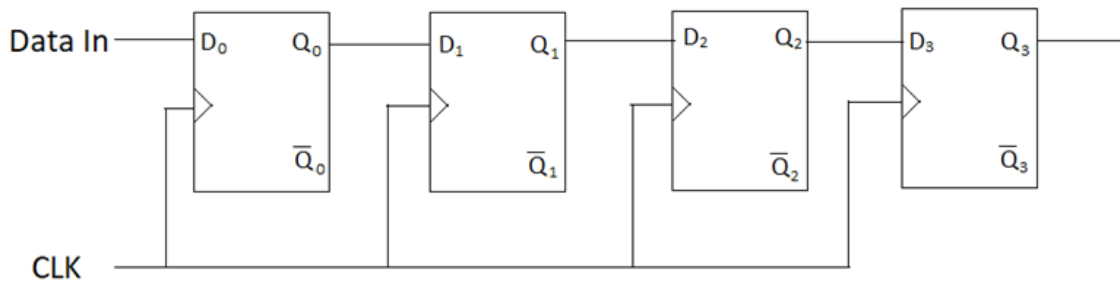


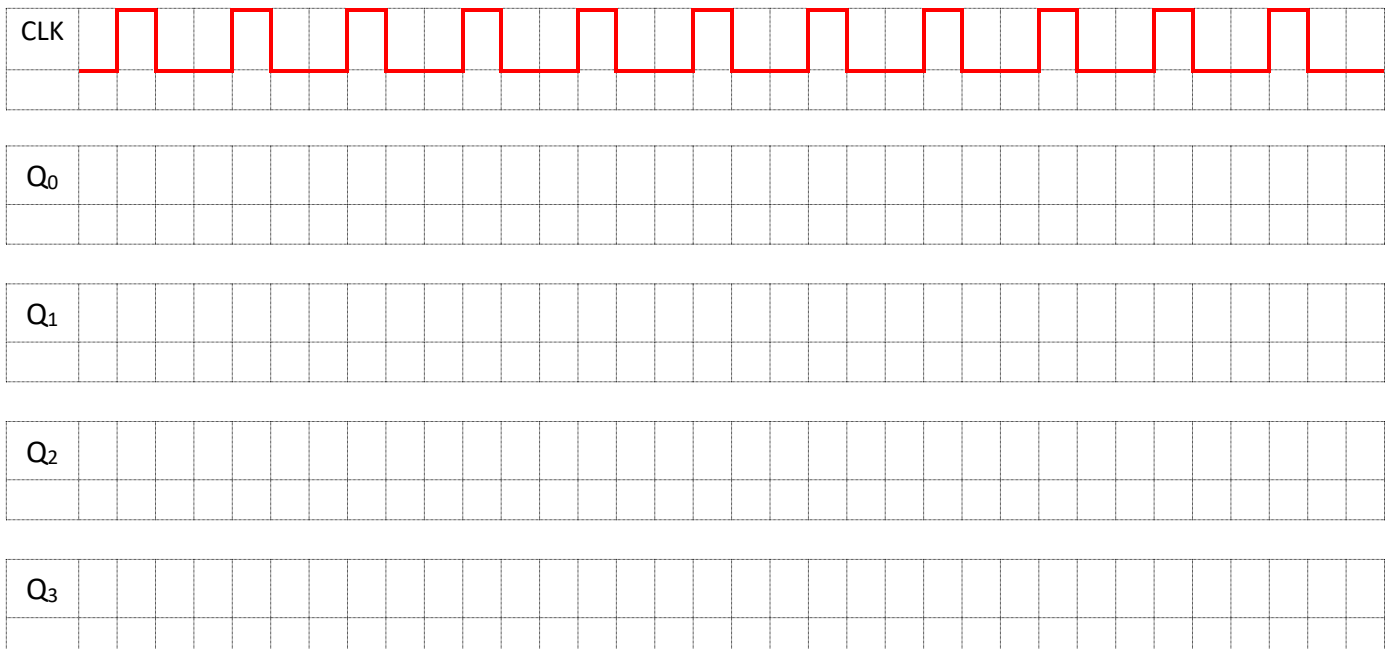
# Introduction to Digital Computing

## Homework 8 - Shift Registers

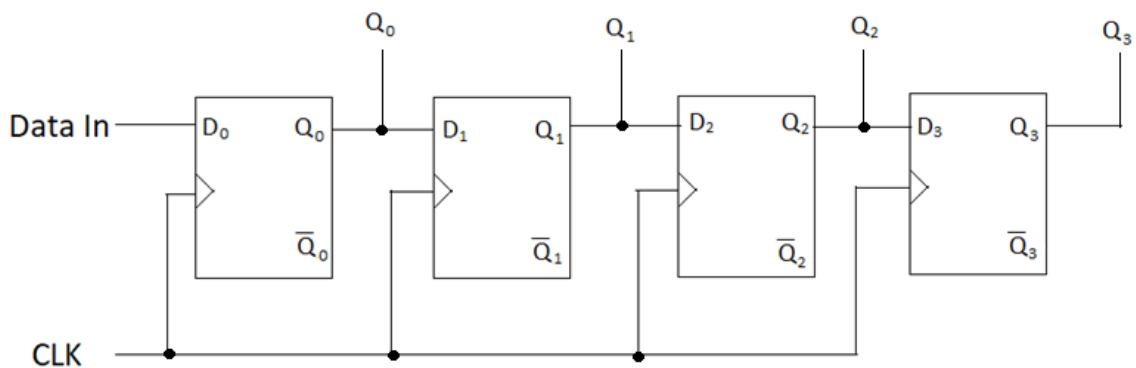
**Question 1)** For the following shift register, if the input data is  $11001011_2$ ,



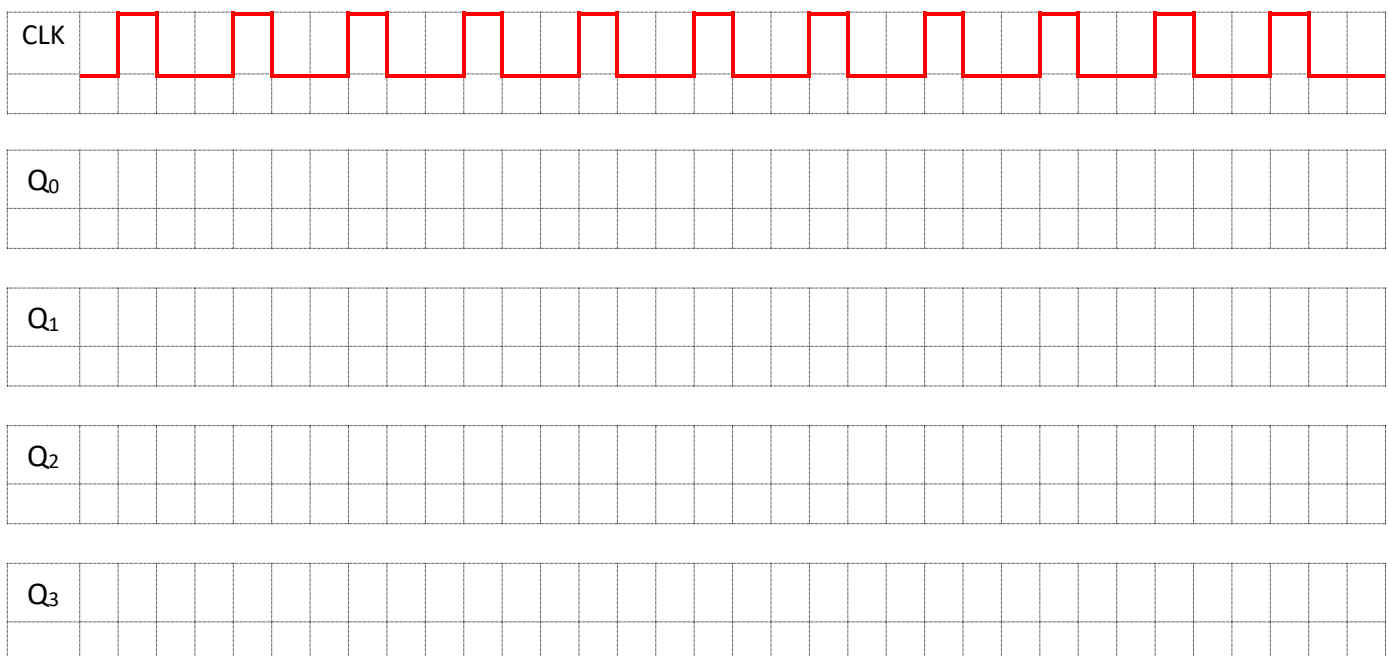
What would be the output data,  $Q_3$ , at the tenth pulse? (Show work) \_\_\_\_\_



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



What would be the output data at the sixth pulse?  $Q_3$  \_\_\_\_  $Q_2$  \_\_\_\_  $Q_1$  \_\_\_\_  $Q_0$  \_\_\_\_



**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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