

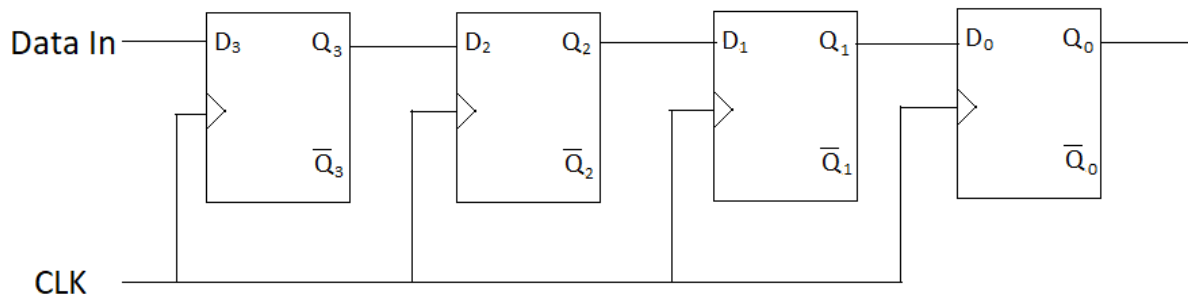
## ET-540 – Introduction to Digital Computing

## Homework 8 - *Shift Registers*

**Instructions:**

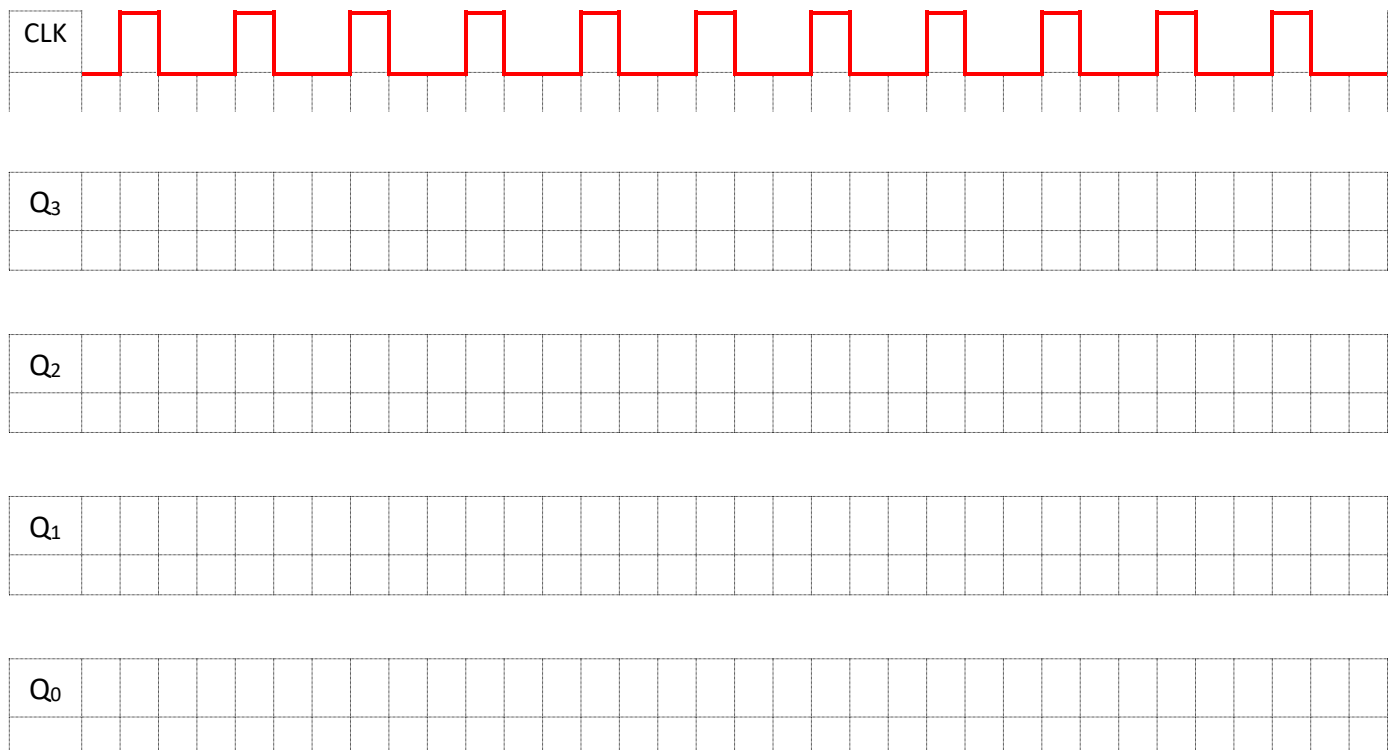
- Show all work to receive full credit.

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

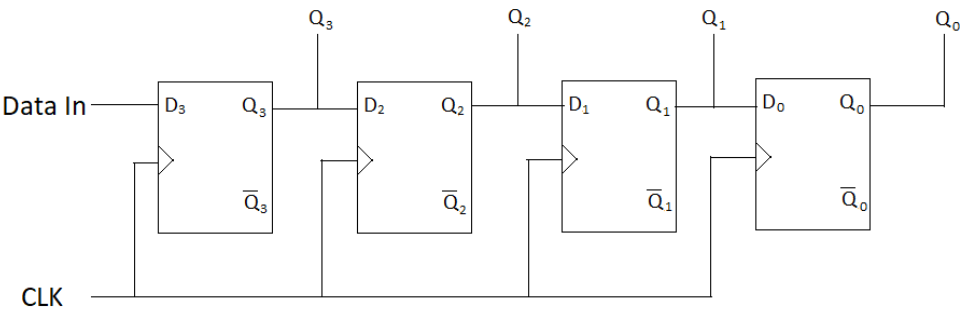


What would be the output data at the tenth pulse? (Show work) \_\_\_\_\_

Sketch the output up to the 7<sup>th</sup> pulse

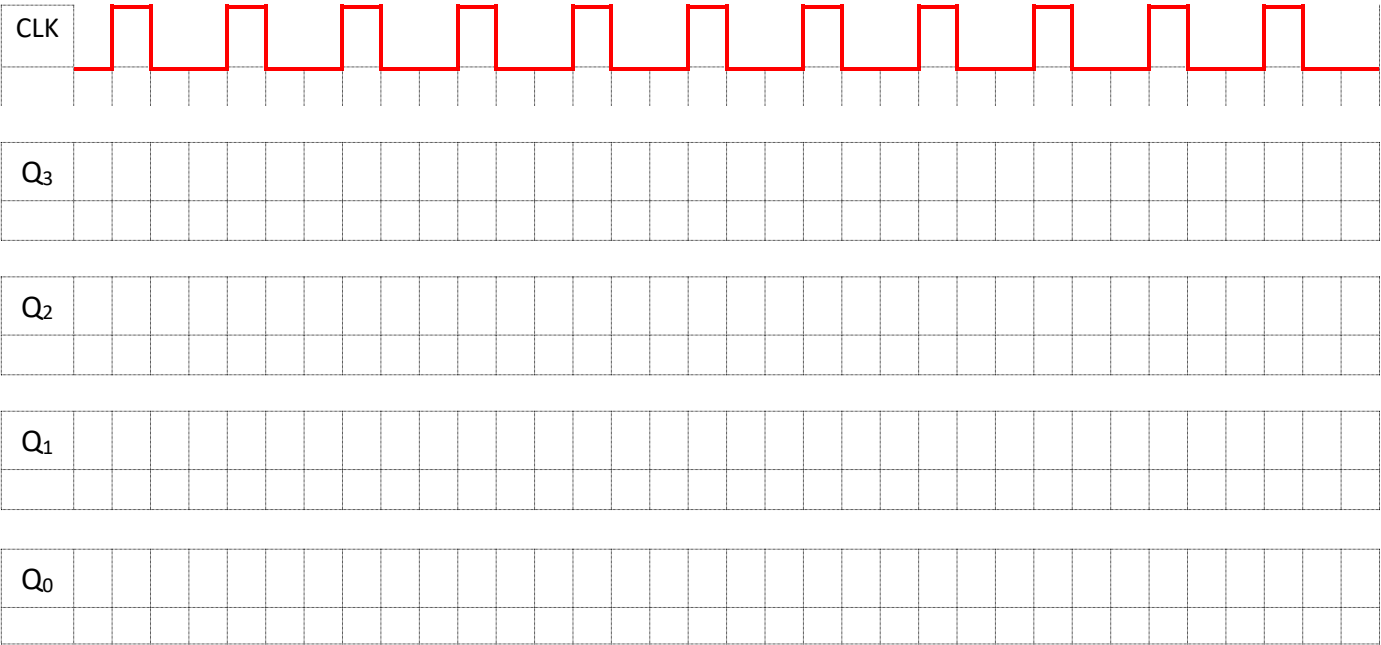


**Question 2)** For the following shift register, if the input data is 10110011<sub>2</sub>,



What would be the output data at the sixth pulse? (Show work) \_\_\_\_\_

Sketch the output at the 8<sup>th</sup> pulse



**Question 2)** First draft for writing assignment

Imagine that you have to write a letter to the chair-person of the Department of Engineering Technology about the technological difficulties that you have had to face with the online learner. Which points, by order of importance starting with the most important, would you describe the needs to create new technology and / or methods for the improvement and participation of students in online learning?

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