Quiz 2
Total marks: 10
Duration: 25 minutes

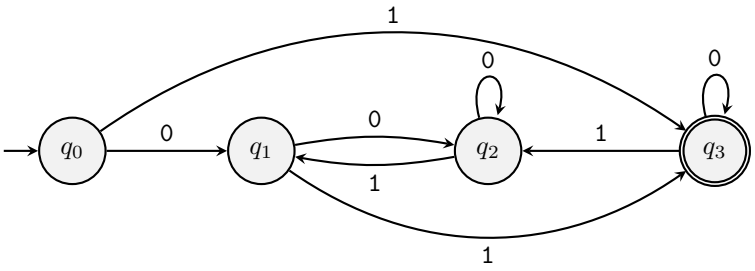
Student ID: _____

CSE331
Set 2

You have to use the designated spaces for your answers. No extra pages will be provided.

Problem 1: Converting DFAs to Regular Expressions (7 points)

Convert the following DFA into an equivalent regular expression using the state elimination method. First eliminate q_1, then q_2 and finally q_3. You must show work.



Problem 2: Regular Expressions (3 points)
Give a regular expression for the following language over $\Sigma = \{\texttt{0}, \texttt{1}\}$.

$$L = \{w : \texttt{00} \text{ appears at the end of } w \text{ but nowhere else}\}$$