Dashboard ► My courses ► 2101-COL215 ► Quizzes ► Quiz 6 A 4-bit modulo 16 counter can be used to implement a module 13 counter by using a suitable logic for clearing. See the block diagram given below. Note both counting up as well as clearing happens on the rising edge of the clock. Correct Mark 1.00 out of 1.00 $\,Q_3\,$ Q_2 f 4 – bit Decoding $Q_{1} \\$ Counter function Q_0 Clr Clk Which of the following presents the appropriate function that the decoder implements? $f = Q_3 \cdot Q_2' \cdot Q_1 \cdot Q_0$ ⊚ $f = Q_3.Q_2.Q_1'.Q_0'$ ✓ None of the given options $f = Q_3 \cdot Q_2 \cdot Q_1' \cdot Q_0$

The correct answer is: $f = Q_3 \cdot Q_2 \cdot Q_1' \cdot Q_0'$

 $f = Q_3.Q_2'.Q_1'.Q_0$

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