ESP

1. **Question**(**GATE-IN-2018-44**): A 2-bit synchronous counter using two J-K flip flops is shown. The expressions for the inputs to the J-K flip flops are also shown in the figure. The output sequence of the counter starting from Q1Q2=00 is

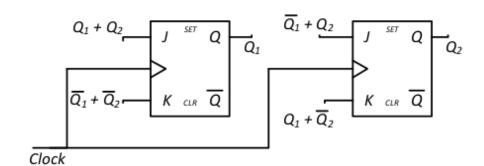


Figure 1

- (a) $00 \rightarrow 11 \rightarrow 10 \rightarrow 01 \rightarrow 00 \cdots$
- (b) $00 \to 01 \to 10 \to 11 \to 00 \cdots$
- (c) $00 \to 01 \to 11 \to 10 \to 00 \cdots$
- (d) $00 \to 10 \to 11 \to 01 \to 00 \cdots$