PLATFORMIO

1. Question(GATE-IN-2021-36):Given below figure 1 is the diagram of a synchronous sequential circuit with one J - K flip-flop and one T flip-flop with their outputs denoted as A and B respectively, with $J_A = (A' + B'), K_A = (A + B), \text{and } T_B = A.$

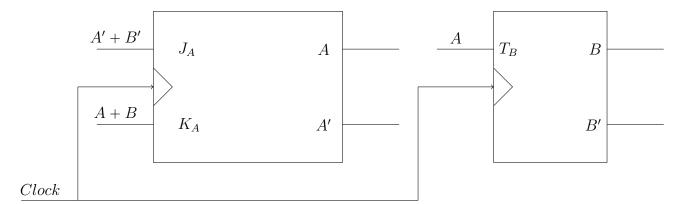


Figure 1

Starting from the initial state (AB = 00), the sequence of states (AB) visited by the circuit is

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