## GATE-EC2021,31

## January 10, 2024

1. The propagation delays of the XOR gate, AND gate and multiplexer (MUX) in the circut shown in the figure are 4ns, 2ns and 1ns, respectively. If all the inputs P, Q, R, S and T are applied simultaneously and held constant, the maximum propagation delay of the circuit is

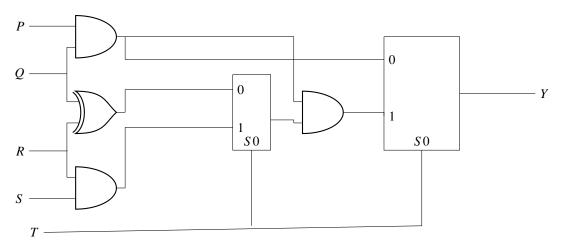


Figure 1: Circuit Diagram

- 1. 3*ns*
- 2. 5ns
- 3. 6ns
- 4. 7ns