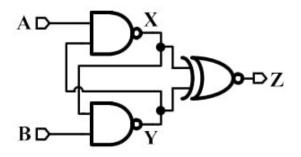
1. In the circuit diagram shown below, the logic gates operate with a supply voltage of 1*V*. NAND and XNOR have 20ps and 400ps input-to-output delay, respectively.

At time t = T.A(t) = 0, B(t) = 1 and Z(t) = 0. When the inputs are changed to A(t) = 1, B(t) = 0 at t = 2T, a 1 V pulse is observed at t = 2T. the pulse width of the 1t = 2T pulse is ps.

(GATE BM 2022)



- (a) A = 100
- (b) A = 200
- (c) A = 400
- (d) A = 600