

# physics

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1. Which one of the following options is CORRECT for the given circuit ?  
(GATE PHYSICS 2023)

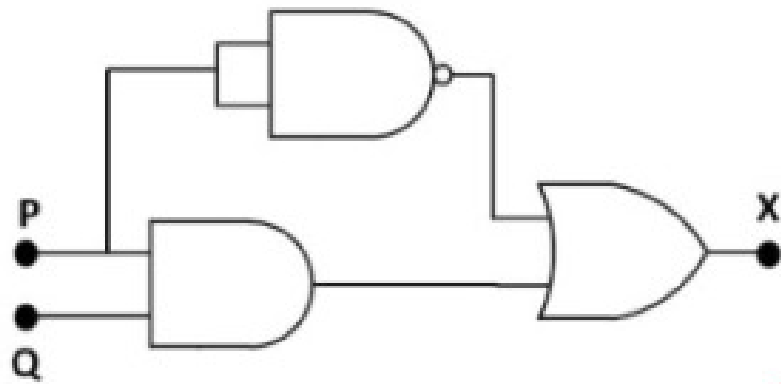


Figure 1:

- (A)  $P = 1, Q = 1 ; X = 0$
- (B)  $P = 1, Q = 0 ; X = 1$
- (C)  $P = 0, Q = 1 ; X = 0$
- (D)  $P = 0, Q = 0 ; X = 1$