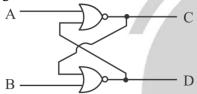
Subject: Digital Logic Chapter: Sequential Circuit

DPP-1

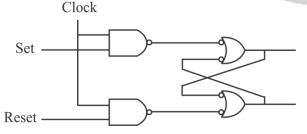
- 1. In an SR latch made by cross-coupling two NAND gates, if both S and R inputs are set to 0, then it will result in
 - (a) Q = 0, Q' = 1
 - (b) Q = 1, Q' = 0

Main task is find which is S and R so use 0 and 1 as a input

- (c) Q = 1, Q' = 1
- (d) Indeterminate states
- In the circuit shown below, when inputs A = B = 0, the possible logic states of C and D are

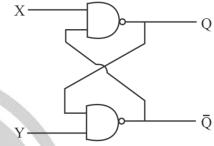


- (a) C = 0, D = 1 or C = 1, D = 0
- (b) C = 1, D = 0
- (c) C = 1, D = 1 or C = 0, D = 0
- (d) C = 0, D = 1
- The two NAND gates before the latch circuit shown below, are used to



- (a) act as buffers
- (b) operate the latch faster
- (c) avoid racing
- (d) invert the latching action

4. In the circuit shown below, outputs $Q\bar{Q} = 01$, the possible values of X and Y are



- (a) X = 1, Y = 0
- (b) X = 1, Y = 1
- (c) X = 0, Y = 1
- (d) X = 0, Y = 0
- Latch is a device with
 - (a) One stable state
 - (b) Two stable state
 - Three stable state
 - Infinite stable states

Answer Key

1. (c)

2. (a)

3. (d)

4. (d)

5. (b)





Any issue with DPP, please report by clicking here:- $\frac{https://forms.gle/t2SzQVvQcs638c4r5}{for more questions, kindly visit the library section: Link for web: } \frac{https://smart.link/sdfez8ejd80if}{https://smart.link/sdfez8ejd80if}$

