

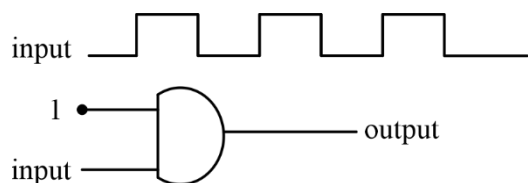
Branch:CSE & IT

Digital Electronics

Inverter, AND GATE, OR GATE

DPP-01

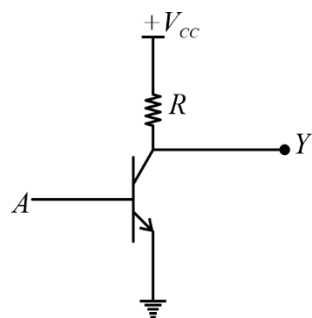
1. The input wave form is given



Draw output wave form

- (a)
- (b) 0
- (c) 1
- (d)

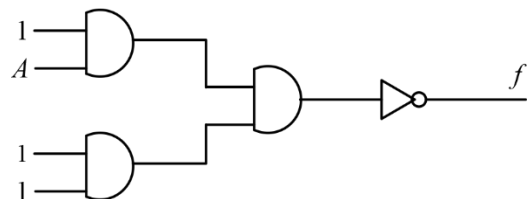
- 2.



When $A = 1$ then the value of Y equal

- (a) 0 (b) 1
(c) V_{CC} (d) none of the above

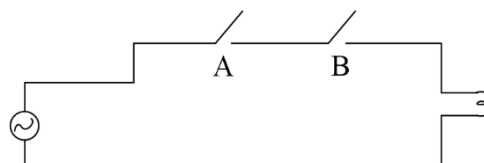
- 3.



Find value of f ?

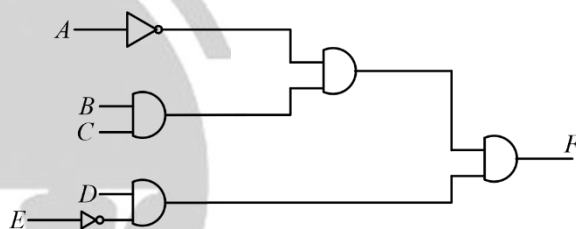
- (a) 1 (b) 0
(c) A (d) \bar{A}

4. Bulb will glow when A and B are respectively.



- (a) 00 (b) 01
(c) 10 (d) 11

5. Find expression of F

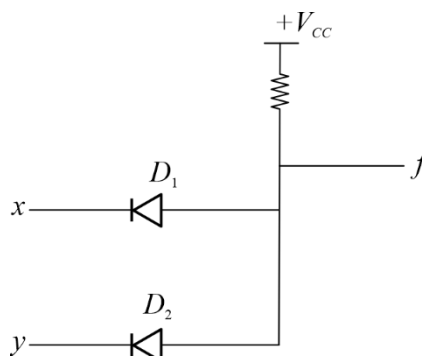


- (a) $\bar{A}BC + D\bar{E}$ (b) $\bar{A}BCD\bar{E}$
(c) $(\bar{A} + BC)D\bar{E}$ (d) $\bar{A}BC(D + \bar{E})$

6. The inverter is _____ gate

- (a) AND (b) OR
(c) NOT (d) none of the above

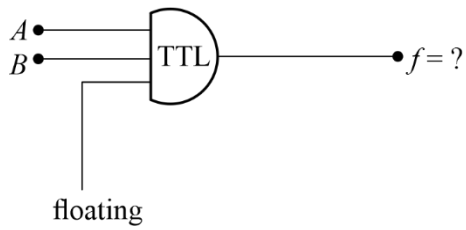
- 7.



The output expression f is

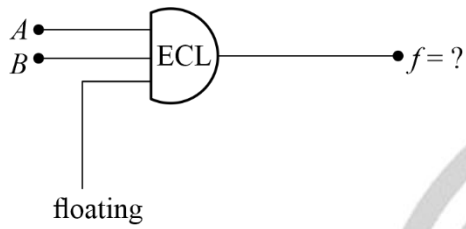
- (a) \overline{xy} (b) $x + y$
(c) xy (d) 0

8.

Find expression of f ?

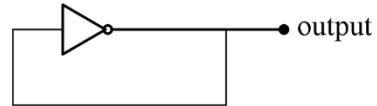
- (a) AB (b) 1
 (c) $A + B$ (d) \overline{AB}

9.

Find expression of f ?

- (a) 0 (b) 1
 (c) AB (d) \overline{AB}

10.

Find output frequency, if the propagation delay of NOT gate is $2n$ sec.

- (a) 125 MHz (b) 500MHz
 (c) 250 MHz (d) none of the above

Answer Key

1. (d)
2. (a)
3. (d)
4. (d)
5. (b)
6. (c)
7. (c)
8. (a)
9. (a)
10. (c)



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