

* Identify the logic operation



- a) AND
- b) NAND
- c) NOR
- d) OR

Ans: d)

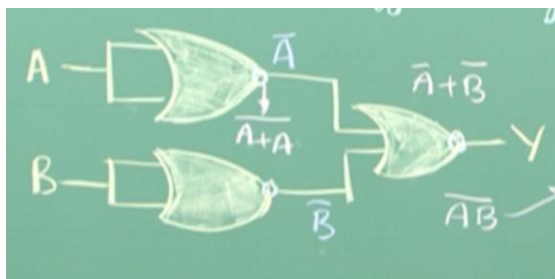
* The given truth table is for

A	B	C
0	0	1
0	1	1
1	0	1
1	1	0

- a) AND
- b) OR
- c) NAND
- d) NOR

Ans: c)

* For the given digital CKT, Write the truth table & Identify the logic gate



- a) OR
- b) NOR
- c) NAND
- d) AND

Ans: c)

* Universal gates are

- a) NAND & NOR
- b) NAND & NOT
- c) NOR & NOT
- d) AND, OR & NOT

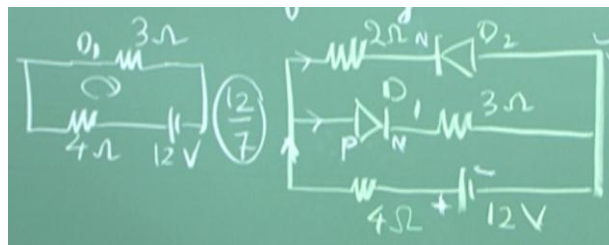
Ans: a)

* In n type Semi-conductor , electrons are majority carriers but it does not show any -ve charge the reason is . . .

- a) Electrons are stationary
- b) Electrons Neutralize with Holes
- c) Mobility of electrons is extremely small
- d) Atom is electrically neutral

Ans: d)

* The CKt has two oppositely connected ideal diodes in parallel what is the current following in the CKt



- a) 1.71A
- b) 2A
- c) 2.31A
- d) 1.33A

Ans: a)

- * Which of the following not correct
 - a) Forward biased diode conducts
 - b) For a transistor to operate in active region EBJ & CBJ forward biased
 - c) $I_E = I_B + I_C$
 - d) Base layer is thin.

Ans: b)

- * Which of the following is not true?
 - a) Diode can be used as a rectifier.
 - b) Transistor can be used as a rectifier.
 - c) Diode can be used as an amplifier.
 - d) Transistor can be used as an amplifier.

Ans: c)

- * Choose the correct statement

- a) $\beta = \frac{\alpha}{1-\alpha}$
- b) $\alpha = \frac{\Delta I_C}{\Delta I_E}$
- c) $\beta = \frac{\Delta I_C}{\Delta I_R}$
- d) All of these

Ans: d)

- * If α - current gain of a transistor is 0.98, What is the value of β - current gain

- a) 0.49
- b) 49
- c) 4.9
- d) 5

Ans: c)

* In a transistor, the collector current varies by 0.49mA, emitter current varies by 0.5mA, current gain β is measured as

- a) 49
- b) 150
- c) 99
- d) 100

Ans: a)