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EEE-303, CT-2
3.12.2020

Answer to the Question nos—(2)

Integrated Component ~~or with~~ with Resistor, capacitor, diode, and gates.

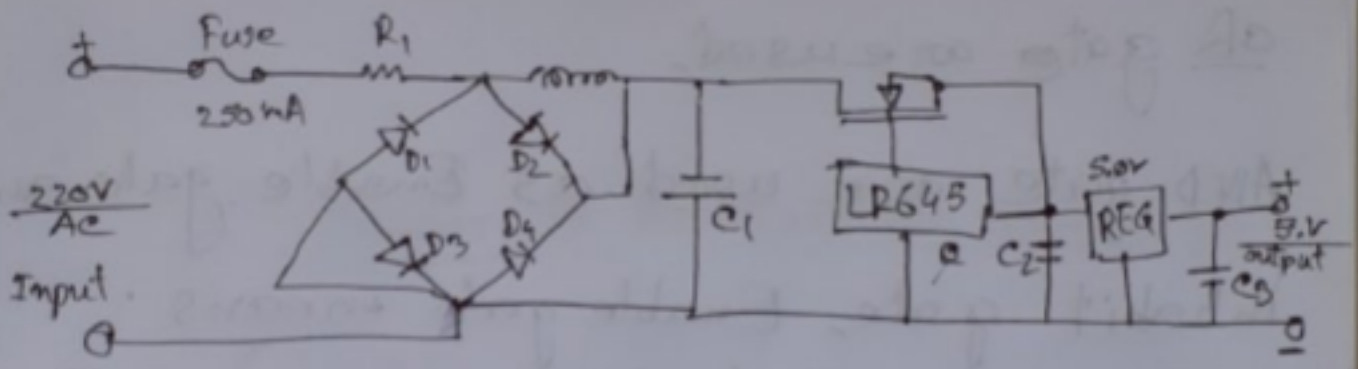

Figure: Ac to 3V Dc with LR645 logic gate.

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Answer to the Question no-(3)

Application of logic gate in computer technology:

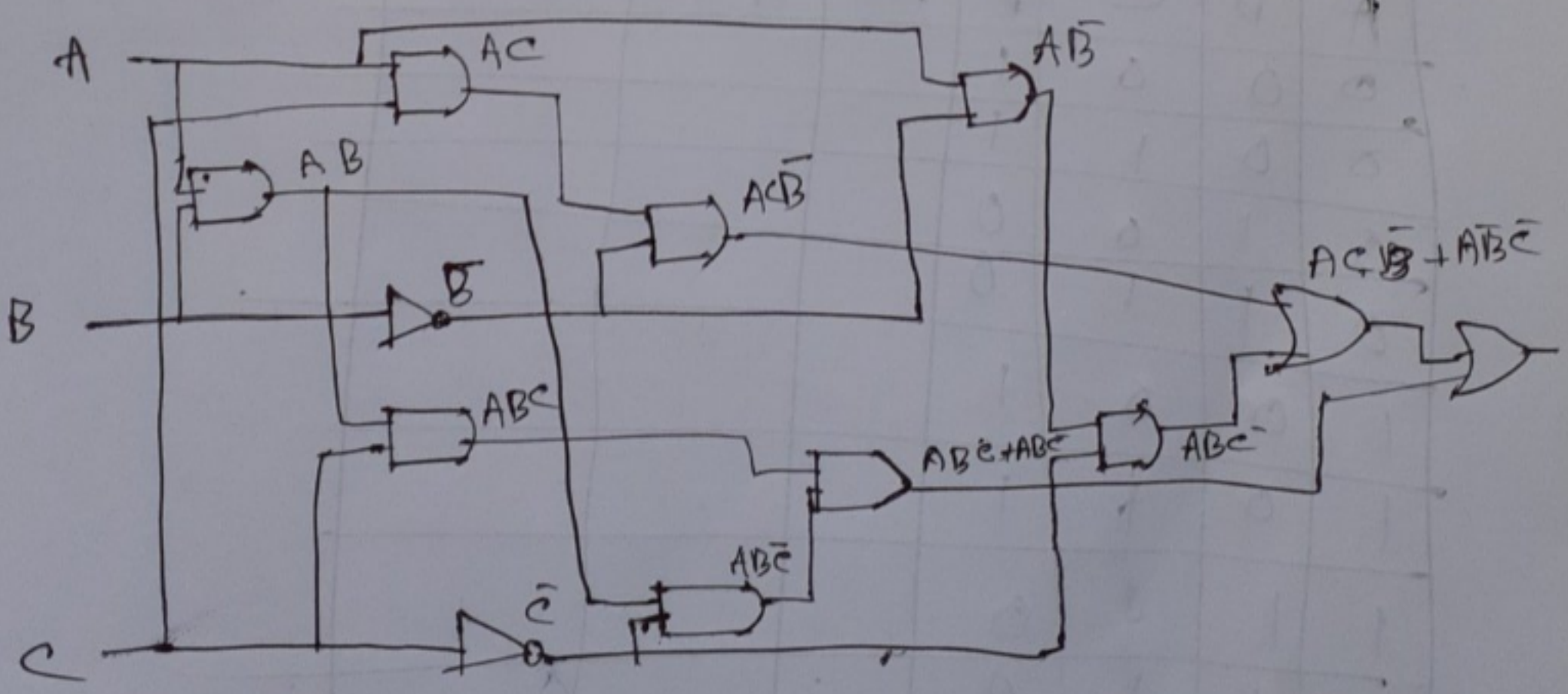
The existance of any one or more than one incident in needed to be observed or some behaviour are to be taken after their existence. In all of those instances OR gate are used.

AND gate are used as Enable gate and inhabit gate. Enable gate means acceptance of data through a pt pathway while inhabit gate is the opposite of that process which means rejection of data through a pathway.

XOR and XNOR gates are used in identity generation and identy check operation,

NOT gates are also called inverter because they switch the input given to them and show the reverse outcome.

Answer to the question no - (1)



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$$\therefore D = AC\bar{B} + A\bar{B}\bar{C} + ABC + A\bar{B}C$$

$$= AC\bar{B} + A\bar{B}\bar{C} + AC(B + \bar{B})$$

$$= A\bar{B}(C + \bar{C}) + AC \cdot \quad [B + \bar{B} = 1]$$

$$= A\bar{B} + AC \quad [C + \bar{C} = 1]$$

Truth table

A	B	C	$\bar{B}$	$A\bar{B}$	AC	$A\bar{B} + AC$
0	0	0	1	0	0	0
0	0	1	1	0	0	0
0	0	1	1	0	0	0
0	1	0	0	0	0	0
0	1	1	0	0	0	0
0	1	1	0	0	0	0
1	0	0	1	1	0	1
1	0	1	1	1	1	1
1	0	1	1	1	1	1
1	1	0	0	0	0	0
1	1	1	0	0	1	1

Ans.