

Dr. Kumar Balwant Singh.

ON LINE LECTURE
NOTES FOR.

B. Sc. Part - II Physics (Hons)

Paper - 4-B.

Topic - Basic Electronics.

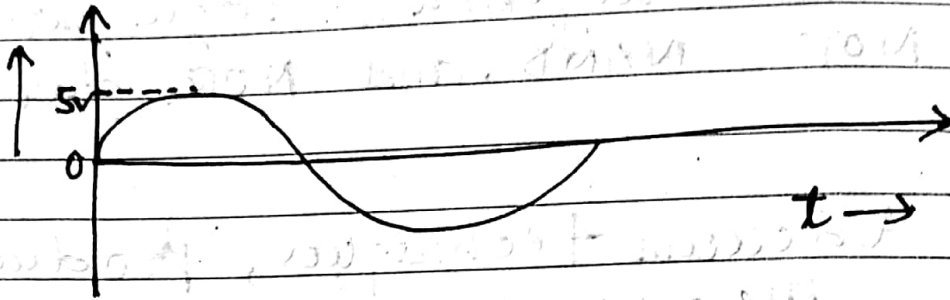
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Logic gates:-

1. Analog Circuit:-

Those electronic circuit in which current and voltage vary continuously.

e.g.



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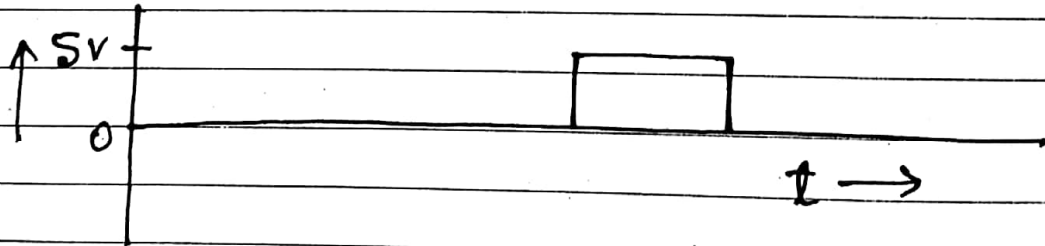
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2. Digital Circuit:-

Those electronic circuit in which current and voltage have only two levels i.e either ON or OFF.

e.g.



Binary Numbers: Binary System uses only two basic symbols 0 and 1

M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
19	20	21	22	23	24	●	26	27	28	29	30	31	●	12	13	14	15	16	17	●

Logic Gates:-

Logic gates are building blocks of a digital system. A gate is a logic circuit which has one or more inputs but only one output. The output follows a logical relationship with input, hence it is called a logic gate.

Truth Table:- It is a table that

Shows all input/output possibilities for a logic gate.

i) $y = A + B$ implies y equals A OR B

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A	B	y
0	0	0
0	1	1
1	0	1
1	1	1

i.e. y equals 1 if any of A or B or both equal 1.

