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Course :- Logic design

USN: - YALISECHOD

Title: Boolean eq for digital sem! 6th sem B' see

Ckt · Combinational ckt

Boolean Algebra

"In 1854, theorge Boole developed on elgebraic system now colled Boolean algebra"

> Boolean algebra is a system mathematical logic's

> " It is a defined with get of element, a set of operator, & a no of axioms or postulate

-) sete of elemen (0,1)

Two binar operator OR (+) & ANO()

> unay sperato - Not (u)

Boolean Algebra - A+A = A 1+1=1 HA.A=A I.P=1

Ordina~ Algebra A+A = 2A 1+1=2 A. A = A2 1.1=1

Binary number system 1+1=(10) 1.1=1

Him (or) Postulates

D commutative can

2) Associative law

3) Distributive law

- Theorems of Boolean algebra
 - 1) Absorption theorem

B) ATAB = A+B



