

ECAT Computer Science Chapter 5 Boolean Algebra

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Sr	Questions	Answers Choice
1	Which of the following function is referred as the complementary.?	A. OR function B. NOT function C. NAND function D. AND function
2	Boolean algebra is.	A. used for arithmetical operation is ALU B. an aid for binary conversion C. useful for error detection and error correction D. used to describe the behavior and structure of logic networks and as an aid in the design of logic system
3	According to aborption law x+x.y=	A. x B. y C. 1 + x D. 1 + y
4	According to Boolean algebra x + 1 =	A. 0 B. 1 C. x
5	If A and B are two 1-bit numbers, what logic gates will be required to test for A=B?	A. NOR gate B. EXCLUSIVE OR gate C. EXCLUSIVE NOT gate D. OR gate
6	Question Image	A. x + y
7	In Boolean algebra A.A.A.A.A	A. 5A B. A C. A ⁵ D. 1
8	According to Idempotent law , x + y =	A. 1 B. 0 C. x D. x . x
9	According to absorption law x. (x+y) =	A. x B. y C. 1+x D. 1+y
10	In a three input NAND gate, if all the inputs are 1, the output is.	A. 0 B. 1 C. 3 D. indeterminate
11	Question Image	A. x . y B. <u>x + y</u> C. <u>x</u> D. x . y
12	Logical addition refers to operation of	A. OR gate B. AND gate C. NOT gate D. invertr gate
13	Logical multiplication refers to operation of.	A. OR gate B. AND gate C. NOT gate D. inverter gater
14	Which of the following statement is true in the case of AND gate with input A and B.	A. If A and B are applied, there will not be any output B. If neither input is applied, there will be an output C. If one input is applied there will not be any output D. If one input is applied there will be an output

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15	Odd parity of a word can be conveniently tested by.	A. UK gate B. XOR gate C. NOR gate D. NAND gate
16	Question Image	A. 0 B. 1 C. x
17	In Boolean algebra A.0 is	A. 0 B. 1 C. A+0 D. A+1
18	Pick up wrong logical expression	
19	Boolean <u>expre</u> ssion for NOR gate with t <u>wo inp</u> uts x and y can be written as.	A. <u>x</u> + y B. x. y C. <u>x + </u> y
20	The commutative law in Boolean Algebra, where a, b and c are binary number is.	A. a+0=a B. a+1=1 C. a+b=b+a D. a. (b+c) = a.b +a.c.