ECAT Computer Science Chapter 5 Boolean Algebra

Sr	Questions	Answers Choice
1	The heart of analog to digital converter (ADC) is	A. comparator B. pulse generator C. voltage source D. current source
2	The output will be one in case any input is one in the case of.	A. OR gate B. AND gate C. NAND gate D. NOT gate
3	According to absorption law x. (x+y) =	A. x B. y C. 1+x D. 1+y
4	Logical multiplication refers to operation of.	A. OR gate B. AND gate C. NOT gate D. inverter gater
5	Boolean algebra use which of the following to represent arithmetic quantities.	A. decimal digits B. exponents C. binary bits D. fractions
6	Question Image	A. x + y
7	Logical addition refers to operation of	A. OR gate B. AND gate C. NOT gate D. invertr gate
8	In a three input NAND gate, if all the inputs are 1, the output is.	A. 0 B. 1 C. 3 D. indeterminate
9	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
10	The 'Boolean Algebra' is based on the premise that	A. there are two states B. differential equations can be solved by analog circuits. C. either a statement is true or false D. arithmetic operations can be carried out
11	An OR gate has 6 input. The number of input words in its truth table are.	A. 6 B. 32 C. 64 D. 128
12	According to Boolean algebra A+A+.....+A is	A. A B. n A C. 0 D. 1
13	The half adder circuit has	A. one input B. two inputs C. three inputs D. always more than two inputs
14	Question Image	A. x . y B. <u>x + y</u> C. <u>x</u> . <u>y</u> D. x . y
		A. logical algebra

15	Boolean algebra is also known as.	B. control algebra C. switching algebra D. programming algebra
16	Which of the following function is referred as the complementary.?	A. OR function B. NOT function C. NAND function D. AND function
17	Which of the following operations are used by Boolean algebra.?	A. Boolean addition B. Boolean multiplication C. Boolean complementation D. All of the above
18	According to Boolean algebra x + 1 = _____	A. 0 B. 1 C. x
19	Question Image	A. 0 B. 1 C. x
20	The logic device that perform Boolean multiplication is.	A. AND gate B. OR gate C. Inverter D. None of these