

ECAT Computer Science Chapter 5 Boolean Algebra

Sr	Questions	Answers Choice
1	The number of inputs to full adder are	A. 1 B. 2 C. 3 D. 4
2	According to Boolean algebra $A+A+\dots+A$ is	A. A B. n A C. 0 D. 1
3	Question Image	A. $x + y$
4	Boolean description for the exclusive OR gate for two inputs x and y can be written as.	A. $x \oplus y$ B. $x \cdot y$ C. $x \oplus y$ D. $x \cdot y + x \cdot y$
5	The heart of analog to digital converter (ADC) is	A. comparator B. pulse generator C. voltage source D. current source
6	Pick up wrong logical expression	
7	In Boolean algebra $A.A.A.A.A$	A. 5A B. A C. A^5 D. 1
8	According to absorption law $x+x.y=$	A. x B. y C. $1 + x$ D. $1 + y$
9	Question Image	A. $A + B + C + D$ B. $A + B + C + D$ C. $A + B + C + D$ D. $A + B + C + D$
10	An AND gate will function as OR if.	A. all the inputs to the gates are "1" B. all the inputs are "0" C. a Not gate is added to it D. all the inputs and outputs are complemented
11	According to Boolean algebra $x + 1 =$ _____	A. 0 B. 1 C. x
12	Boolean algebra use which of the following to represent arithmetic quantities.	A. decimal digits B. exponents C. binary bits D. fractions
13	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. $a \cdot (b+c) = a \cdot b + a \cdot c$
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
15	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
16	The circuit that is used for parallel to serial conversion is	A. decoder B. encoder C. multiplexer

		D. demultiplexer
17	An OR gate has 6 input. The number of input words in its truth table are.	A. 6 B. 32 C. 64 D. 128
18	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
19	Logical multiplication refers to operation of.	A. OR gate B. AND gate C. NOT gate D. inverter gater
20	Boolean algebra is also known as.	A. logical algebra B. control algebra C. switching algebra D. programming algebra