

Boolean Algebra Questions with Solutions

1. Define Boolean expression.

Answer:

The result of a Boolean expression is always a Boolean value. A Boolean expression is made up of the Boolean constants, logical connectives and Boolean variables and logical connectives. A Boolean function is represented by each Boolean expression. The Boolean expression XYZ is an example.

2. What is meant by isomorphic Boolean algebra?

Answer:

Isomorphic Boolean algebras B and B_1 are those that have a one-to-one correspondence $f: B \rightarrow B_1$ that retains the three operations $+$, $*$, and $'$ for all elements x, y in B .

- $f(x+y) = f(x) + f(y)$
- $f(x*y) = f(x) * f(y)$ and
- $f(x') = f(x)'$

3. Define Boolean function.

Answer:

A Boolean function is a type of mathematical function with the formula $f: X^n \rightarrow X$ of degree n , where ' n ' is a non-negative integer, and $X = \{0, 1\}$ is a Boolean domain. It explains how Boolean input generates Boolean output.

Let $F(X, Y) = X'Y'$ as an example. This is a degree 2 function from the collection of ordered pairs (two numbers) of Boolean variables to set $\{0, 1\}$ with $F(0, 1) = 0$, $F(0, 0) = 1$, $F(1, 1) = 0$, and $F(1, 0) = 0$.

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