

CIT292 noun exams

1. $x + (x \bullet y) = x$ is an example of which theorem?

Absorption

2. For $x = 1$, $y = 1$ and $z = 0$; what is the value of $(x' + y + z') \bullet (x' + y' + z) \bullet (y' + z')$

1

3. $x + x = x$ is an example of which theorem?

Idempotent

4. The decimal value of the BCD 100001110101 is?

875

5. A _____ is a sum term that contains all the variables used in the function.

maxterm

6. Which option is a representation of DeMorgans's theorem?

$$(x + y)' = x' \bullet y'$$

7. What is the value of the binary addition $101 + 110$ in decimal?

11

8. A _____ is a product term that contains all the variables used in a function.

minterm

9. Which option is true when two switches are connected in series?

both switches have to be on for the output to be 1

10. Which logical operator has the same output as two switches in parallel?

OR