Winter_25_Quiz_3 - Results



Attempt 1 of 1

Written Jan 28, 2025 7:57 PM - Jan 28, 2025 8:22 PM

Attempt Score 11.5 / 20 - 57.5 %

Overall Grade (Highest Attempt) 11.5 / 20 - 57.5 %

Question 1

Using the following table obtain F:

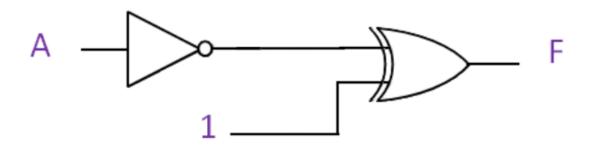
A	В	С	F
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	1

- 1) A'B'C+A'B'C'+AB'C'+AB'C
- ABC'+ABC+A'BC+A'BC'
 - A'BC'+A'BC+AB'C'+ABC



Question 2

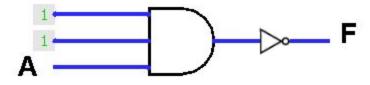
What is the value of F = ?



- \bigcirc 0
- **x** ∩ 1
- - $\bigcirc A'$

Question 3

Using the following circuit the value of F is:



- 1) A
- ✓ 2) A'

- O 3) ₁
- O 4) 0

Question 4

If the number of Boolean variables is 3 then the number of Boolean functions can be built using these variables is equal to :

- 1) 512
- **✓** 2) 256
 - 3) 8
 - **4)** 16

Question 5

Using Boolean identities, reduce the given Boolean expression:

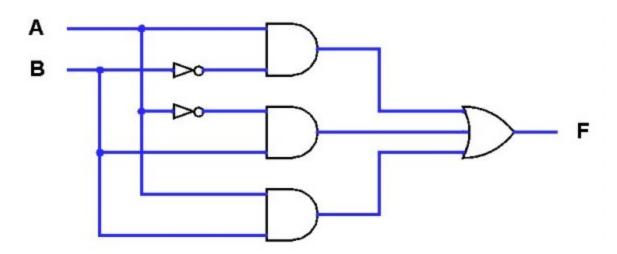
The correct answer is not displayed for Written Response type questions.

▼ Hide question 5 feedback

Feedback

Question 6

Considering the following circuit what is the value of F if A = 0 and B = 1



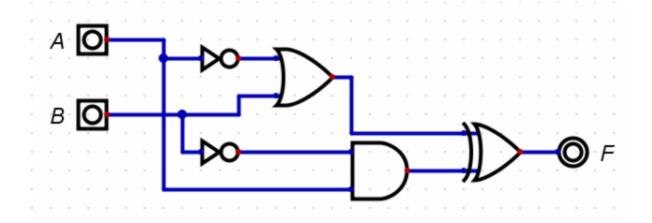
Question 7

There are
$$\underline{8}$$
 \times (16) Minterms for 4 variables (A, B, C, D)

Question 8

Write the Boolean expression equivalent to the following logic circuit:

- + (OR)
- \oplus (XOR)



- **✓** 1) 1
 - 2) AB'+ A'+ B
 - 3) A⊕B

Question 9

Simplify F = A'B+AB'+B'

- 1) A+B'
- → 2) A'+B'
- **×** 3) A'+B
 - 4) Δ+Ε

Question 10

$$F = (A + A')' + AA'$$

After simplification, F = ?



- 2) A
- (C) 3) A
- **⇒** 4) 0

Done