HW8: Digital Logic

Due Feb 8 at 11:59pm	Points 17	Questions 5	Available until Feb 10 at 11:59pm	Time Limit None	

Attempt History

LATEST Attempt 1	20 minutes	14 out of 17

▲ Correct answers will be available on Feb 10 at 11:59pm.

Score for this quiz: **14** out of 17 Submitted Feb 3 at 7:05pm This attempt took 20 minutes.

Question 1	4 / 4 pts

Given the following logic equation:

For a system with:

Input variables: A,BOutput variable: Y

Determine if each output column cell is a logic 1 or a logic 0.

Α	В	Υ
0	0	0
0	1	1
1	0	1
1	1	0

Answer 1:

0

Answer 2:

1

Answer 3:

1			
Answer 4:			
0			

Partial

Question 2 1 / 4 pts

Given the following logic equation:

Y = ~A & ~B + A & ~B

For a system with:

Input variables: A,BOutput variable: Y

Determine if each output column cell is a logic 1 or a logic 0.

Α	В	Υ
0	0	0
0	1	1
1	0	1
1	1	1

_		
Answer	1	•
AII3WEI		

0

Answer 2:

1

Answer 3:

1

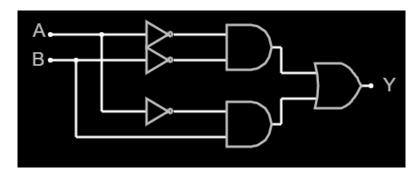
Answer 4:

1

Question 3

3 / 3 pts

Select the logic equation that represents the following circuit:

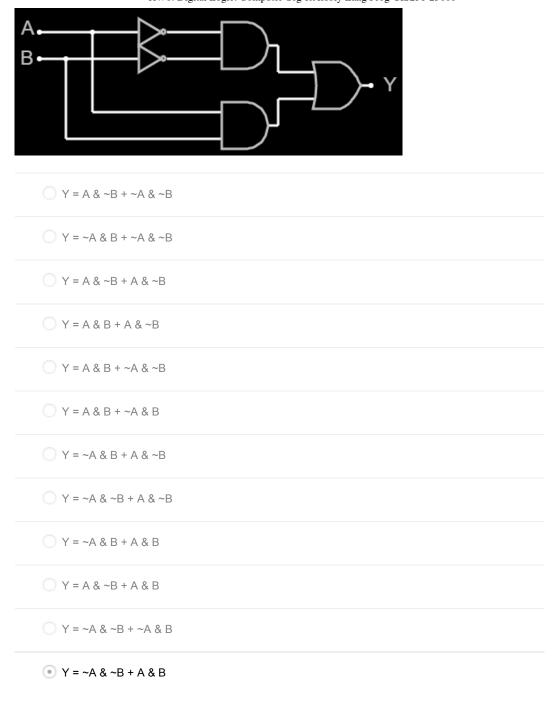


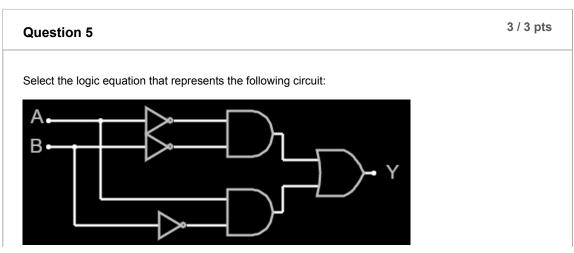
- Y = A & B + A & ~B
- Y = ~A & ~B + ~A & B
- \bigcirc Y = A & B + ~A & B
- Y = ~A & B + A & ~B
- \bigcirc Y = ~A & ~B + A & ~B
- Y = A & B + ~A & ~B
- Y = A & B + A & B
- Y = A & ~B + A & B
- \bigcirc Y = A & ~B + ~A & ~B
- Y = ~A & ~B + A & B
- Y = ~A & B + A & B
- \bigcirc Y = A & ~B + A & ~B

Question 4

3 / 3 pts

Select the logic equation that represents the following circuit:





○ Y = A & ~B + A & ~B
Y = ~A & B + A & B
○ Y = A & ~B + ~A & ~B
Y = A & B + ~A & B
○ Y = ~A & ~B + ~A & B
○ Y = ~A & B + ~A & ~B
○ Y = A & B + A & ~B
○ Y = A & B + ~A & ~B
○ Y = ~A & B + A & ~B
○ Y = ~A & ~B + A & B
○ Y = A & ~B + A & B
Y = ~A & ~B + A & ~B

Quiz Score: 14 out of 17