Week 8: Assignment 8

The due date for submitting this assignment has passed.

Due on 2021-09-22, 23:59 IST.

1) The minimum number of half adders and half adders required to implement 4-bit Baugh-Wooley multipliers are respectively
   1 point
   - 7, 7
   - 7, 8
   - 8, 7
   - 8, 8
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 7,7

2) If A=0123B, B=2345D, and C=2359H, then after the execution of $\text{display A}$, the value of A, B, and C displayed is respectively
   1 point
   - 101111,111,111
   - 110111,111,111
   - 111011,111,111
   - 111011,111,111
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 101111,111,111

3) The 8-bit signed 2's complement representation of -25 is
   1 point
   - 11100010
   - 11100011
   - 10011001
   - 00011001
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: 11100010

4) The range of 3-bit fixed point normalized signed 2's complement numbers is
   1 point
   - -1 to +3/4
   - -1 to +3/4
   - -1 to +5/4
   - -1 to +3/4
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: -1 to +3/4

5) If a 4-bit fixed point normalized signed 2's complement representation of A is $\text{a3} \cdot \text{a2}\text{a1}\text{a0}$, then $A \times 2^{-1}$ would be
   0 points
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0$
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0$
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0$
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0$
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: $a_3 \cdot a_2\cdot a_1 \cdot a_0$

6) If a 4-bit fixed point normalized signed 2's complement representation of A is $a_3 \cdot a_2 a_1 \cdot a_0$, then $A \div 2$ would be
   1 point
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0 + 1.000$
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0 + 0.100$
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0 + 0.010$
   - $a_3 \cdot a_2\cdot a_1 \cdot a_0 + 0.000$
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: $a_3 \cdot a_2\cdot a_1 \cdot a_0 + 1.000$

7) Which of the following statement(s) is TRUE?
   1 point
   - Brahu multiplier is unsigned multiplier
   - Baugh-Wooley multiplier is unsigned multiplier
   - Baugh-Wooley multiplier handles sign bit in an efficient manner
   - All of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: All of the above

8) Which of the following statement(s) is TRUE?
   0 points
   - $\text{display}$ displays current simulation time
   - $\text{display}$ displays one-time value of variables or fields
   - $\text{monitor}$ displays variables whenever a value changes during a simulation run
   - All of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: $\text{display}$ displays current simulation time

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