Assignment 2

The due date for submitting this assignment has passed.

1. Which of the following is not a logical instruction in the Simplicity ISA?
   - and
   - or
   - cmp
   - none of the above
   Accepted Answer:
   - or
   1 point

2. What will be the value of flag 0 after the execution of the following code snippet?
   ```c
   if(x>10) .
   cmp x,4
   ```
   Accepted Answer:
   - 1
   1 point

3. Which of the following is a legal instruction?
   - mov x,4
   - cmp x,10
   - .word 5
   - none of the above
   Accepted Answer:
   - mov x,4
   1 point

4. A machine in which the most significant type (MS2) is stored in the lowest location is:
   - Big endian machine
   - Little endian machine
   - Both
   Accepted Answer:
   - Big endian machine
   1 point

5. In Simplicity we have ______ registers
   - 32
   - 16
   - 8
   - 12
   Accepted Answer:
   - 32
   1 point

6. Convert the decimal number 17,055 into its binary equivalent.
   - 0b11010011101
   - 0b10101011001
   - 0b10110100101
   - none of the above
   Accepted Answer:
   - 0b11010011101
   1 point

7. Convert the binary number 101010 into its decimal equivalent.
   - 10
   - 21
   - 16
   - 12
   Accepted Answer:
   - 16
   1 point

8. ULP is ______ with MOS.
   - not compatible
   - compatible
   - not used
   - none of the above
   Accepted Answer:
   - compatible
   1 point

9. The ______ contains the address of the current instruction.
   - Program counter
   - Flags register
   - Program counter
   - Register
   Accepted Answer:
   - Program counter
   1 point