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QUIZ1

ATTEMPT SCORE

9 / 9

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01 Multiple Choice   **1** / 1

…………is common issue in signed numbers and 1's complement representation

○ 2 representation for every number

◉ 2 representation for zeros

○ 2 representation for 1

○ human readable

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02 Multiple Choice   **1** / 1

What is the addressing mode used in the instruction SUB for the stack-organized machine?

◉ Implied

○ Immediate

○ Direct

○ Register

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03 Multiple Choice   **1** / 1

The content of an 8-bit register is initially 10100110. The register performs a 3-time right rotate. What is the final value of the result?

○ 00110101

○ none of the above

○ 11110100

◉ 11010100

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04 Multiple Choice   **1** / 1

Check whether the given 4 bit twos complement number results in overflow or not -6 + -4

○ No over flow, No carry

○ no over flow, carry

○ overflow, no carry

◉ Overflow, carry

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05 Multiple Choice   1 / 1

Compute the booth recording and modified booth recording format for the multiplier bit 110111

◉ [0, -1, +1, 0 , 0,-1], [-1, +2, -1]

○ none of the above

○ [0, 0, -1, +1, 0, 0, -1, 0] [-2, +1, -1]

○ [0, +1, -1, 0, 0, +1] [+1, -2, +1]

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06 Multiple Choice   1 / 1

A data movement instruction will be

○ modify the status register

○ modify the program counter

◉ transfer the data from one location to another

○ modify the stack pointer

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07 Multiple Choice   1 / 1

An instruction is stored at location 700 with its address field at location 701. The address field has the value 200. A processor register R1 contains the number 300. Evaluate the effective address if the addressing mode of the instruction is (a) immediate (b) relative (c) register indirect; (d) index with R1 as the index register.e)direct

○ none of the above

◉ 701,902,300,500,200

○ 700, 202,0, 300, 701

○ 700,900, 0, 300,200

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08 Multiple Choice   1 / 1

Compute Number of memory acess in the execution cycle of a 1-address instruction if word length is 1 byte, the Opcode is 1 byte, Operand address/operand is 2 byte. [ADD A]

◉ 2

○ 4

○ 6

○ 8

09 Multiple Choice   1 / 1

Which law states that the overall performance improvement gained by optimizing a single part of a system **is** limited by the fraction of time that the improved part **is** actually used.? is the statement correct

- ⦿ Amadhals Law, and the statement is correct

- ○ Moores Law, the statement is correct

- ○ Amadhals Law, and the statement is not correct

- ○ Moores Law, the statement is not correct