**EECE 237** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assembly code exercise- Answer

Section # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The result of this quiz will replace the score of the previous Quiz #1 Question 6.

6. Write all values in hexadecimal. Use the memory chart shown at the next page. Each question is contained by itself, and is not affected by a previous question. (14)

1. After the instruction LDR R4, [R8, R1]
   * + - 1. What is the content of R4? \_\_\_0x0000 0001\_\_\_\_\_\_\_\_
2. After the instruction STR R6, [R10]
   * + - 1. What memory location is modified? \_\_0x2000 0FF0\_\_
3. After the following two instructions,

LDR R2, =0x2000101C

STR R6, [R2]

What address is affected by these codes? a. \_\_0x2000101C \_

What is the content of the affected address? b. \_\_0xFFFF FF00\_\_

1. After the instruction MVN R3, R4
   * + - 1. What is the content of R3? \_\_0xFFFF FFF9\_
2. After the instruction ADC R0, R5, #10
   * + - 1. What is the content of R0? \_\_\_\_0X 02B\_\_\_
3. After the instruction AND R11, R7, #0x0000FFFF
   * + - 1. What is the content of R11? \_\_0X0000 1008\_\_\_\_

7. After the instruction ORR R11, R7, #0x0000FFFF

a. What is the content of R11? \_\_\_0X2000 FFFF\_\_\_