Classwork 05 CPE221 Computer Ozzanizatien
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Student's Name:

(20 points 1 Consider an ARM Assembly to tel global \_start \_stant: LDR RO, = array 2 LDR RI, CRO, #4] MOV R2, #99 STR R2, ERO, #8] MOV R7, #1 5 mov RO, #0 done: B done 7

8 array & word 11, 22, 33, 44, 55

Assume the 32-bit instruction set ourchitecture, and A byte word size.

Further assume that the first instruction is stored in address 0x00 croco.

And, the starting address of array is 0x20.

questions

1. Explain what each line of the code is doing. (10 points)

2. What is the value in segister

RO, RI and R7 after the execution of
instruction in line 3. (4 points)

3 what is the value stored in the memory address 0x0000028 after the execution of the program. (3 points)

4. What is the opcode for the instruction 2 as you see in que coulater. (3 points)