

2022C - Mock A1

Mock Assessment 1

Student Name	Student IE)

EEET2505 - Introduction to Embedded Systems

Total Mark:

EEET2505

Important Notes:

- This is an open book assessment. You can use your note or Internet resources during the session. You are not allowed to chat/communicate with other during the assessment. Write your name (First Name and Last Name on top of this paper)
- Please give the details of your solutions in the spaces provided on the paper itself. For the mock assessment, save the file and upload to Canvas. For the actual assessment, you will submit the paper after completion.
- You are recommended to attempt all of questions provided.
- Your solution should be detailed.
- If you have any questions, please be in contact with the lecturer for further advice.

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A Microcontroller (MCU) is given with: An Accumulator A (8 bit) Program Counter (PC) The initial instruction set is listed in the following table: No Instruction Opcode Description 0000 0000 0x00 No Operation NOP No effect on internal registers. LDA data Load data Load the accumulator with data A←data Store the contents of the accumulator in memory at 0x02 address addr. mem[addr] ← A Add the contents at address addr to the contents of the accumulator. (A) ← (A) + mem[addr] Note – if the Sum is overflow (over 8 bit), a Carry flag C will be set to 1. Jump to address addr 0000 0100 0x04 (PC) ← addr







