

Each problem is worth 1 point. No partial credits.

- 1) What is the size of the RAM (in bytes) used in the microcontroller used in this class?

2048 Bytes

- 2) How many pins are there in the MCU used in this class?

100 pins

- 3) The bits 11010000 are stored in an 8 bit register to represent a signed binary number (in 2's complement representation). This number is divided by 8 and stored in another 8 bit register. Show all the bits in this register.

$$8 = 2^3$$

Knock out three least significant bits on the right and pad with three ones on the left

Answer: **11111010**

- 4) In little-endian byte ordering, is the lower significant byte stored in lower or higher memory?

Lower Memory

- 5) What does the acronym CPU stand for?

Central Processing Unit

6) What is the name of the IDE used in this class?

Code Composer Studio or CCS

7) What is the highest address (in hexadecimal notation) of a register in your MCU when looked at as 8-bit chunks?

0XFFFF

8) Does your program sit in FRAM or RAM?

FRAM

9) Is the RAM used in your MCU classified as volatile or non-volatile memory?

Volatile

10) What is the start address of FRAM in hex?

0X4400