(4 points) Consider the following 16 bits: 0011 1010 0010 1001. Give the hexadecimal representation of these bits and interpret them as a string of 8-bit ASCII characters. Use the ASCII table on the last page of the exam.

| ASCII characters: | |
|-------------------|-------------------|
| | ASCII characters: |

B this page or on the scratch pages if needed). Answer the questions on the next page.

2.

| 1. | er as a | | | | |
|--|---|------------------------|-------------|----|--|
| | a) xE XOR x4 = (answer in hexade | cimal representation) | | | |
| | b) NOT(xC OR (NOT(x5))) = (ansi | wer in hexadecimal rep | resentation | 1) | |
| Please compute the following arithmetic operations in 8-bit 2's complement. Express your answer as an 8-bit 2's complement number. Indicate if it has an overflow by circling the corresponding YES or NO. | | | | | |
| Pa | rt A (3 points): 00110110 + 00000100 = | Overflow? | YES | NO | |
| Pa | rt B (3 points): 01101001 + 10111010 = | Overflow? | YES | NO | |
| Pa | rt C (3 points): 10101101 + 10110110 = | Overflow? | YES | NO | |
| Pa | rt D (3 points): 10011011 – 11001100 = | Overflow? | YES | NO | |