## ECE 153B Lab 4

## **Question 2A)**

USART DIV =  $8333.333 \sim 8333 = 0x208D$ TX/RX Baud Rate = f CLK /(USART DIV) = 80MHz /(0x208D)

## **Question 3B)**

PRESC = 7

Min Low clk per. = 4.7us

Min Hi clk per. = 4.0us

Min data setup time =  $\underline{1000\text{ns}} = \underline{1\text{us}}$ 

Min data hold time =  $\underline{1250}$ ns =  $\underline{1.25}$ us

Used in the following Calculations:

## **Reading and Writing from the Temperature Sensor:**

TABLE 4-1: COMMAND BYTE
DESCRIPTION
(SMBUS/I<sup>2</sup>C READ\_BYTE AND
WRITE\_BYTE)

Command	Code	Function
RTR	00h	Read Temperature (TEMP)
RWCR	01h	Read/Write Configuration (CONFIG)

Read Temperature Command Byte = 0x00