Name:

Which of the following is not a requirement for Lab 7? (Circle all incorrect ones)

Req. 1.   The code generated is written in C for the SKP16C62P.

Req. 2.   The code is well commented and easy to follow.

Req. 3.   Board 1 must run with Round Robin Scheduling – you should determine the best priority for the tasks.

Req. 4.   If the data received is not valid the program should return the not-acknowledgement string "Bad input".

Req. 5.   Board 1: Toggle the Green LED every 0.1 seconds (0.1 seconds on, 0.1 seconds off).

Req. 6.   Board 1: Toggle the Yellow LED every 0.25 seconds (0.25 seconds on, 0.25 seconds off).

Req. 7.   Board 1: Toggle the Red LED every 0.5 seconds (0.5 seconds on, 0.5 seconds off).

Req. 8.   Board 1: Configure the board to continually update the thermistor ADC value.

Req. 9.   Board 1: Every 1.0 seconds, read the temperature value, convert it to ASCII, and send the ASCII values to Board 2.

Req. 10.   Board 1: With the value read from the thermistor, convert it into a temperature as an ASCII string with the format "xxx.x", which is the temperature in Fahrenheit.

Req. 11.   Board 1 & 2: Serial communications must be handled with interrupts and queues.

Req. 12.   Board 2: When ASCII data is received, display it on the LCD.

Req. 13.   Communicate at 112,000 baud, odd parity, two stop bits

Req. 14.   Connect two data lines and one ground line between the two boards using RS232-level signals.

Req. 15.   The code should be as compact as possible. Lab scores will be based on the size of the compiled object file. Smaller compiled code will result in a better score.

Req. 16.   Your final report should show a one-second Mixed Signal Oscilloscope trace showing all LEDs and one serial communication.

Req. 17.   Your larger file must be submitted to Blackboard.