



Name: _____

Student ID _____

(TOTAL 200 Points)

QUESTION 1 (CHAPTER 6 OF TEXT BOOK) (80 POINTS)

PROBLEM 6.1

PROBLEM 6.4

PROBLEM 6.5

PROBLEM 6.18

QUESTION 2 (CHAPTER 7 OF TEXT BOOK) (60 POINTS)

PROBLEM 7.14

PROBLEM 7.16 A (NOT B AND C)

PROBLEM 7.18

QUESTION 3 (MATLAB)

3.1 In MatLab write the code to determine the mass of a column of mercury with a diameter of 1540mm and a length of 1.7m. Please print out your entire program making sure you include the answer. **(10 Points)**

3.2 On BBL under lecture notes is an Excel workbook titled Laboratory 2 Data. Choose any FOUR of the six columns, and using MatLab determine the: **(50 Points)**

1. Mean;
2. Median;
3. Standard Deviation

Also provide histograms of the 4 columns of data. Be sure to label the axes appropriately and do NOT forget about the units. Please print all relevant MatLab programs and outputs and hand them in with you exam.

