

MTH 3240 Lab 5 **Answer Sheet**

Due Thu., Feb. 27

1 **Part A**

1.1 **Contaminants in Bird's Eggs Data Set**

1. NA
2. *Don't* print the side-by-side boxplots. Just use them to answer the following question.

Which species of birds' eggs, Little Egret or Black Crowned Heron, tend to have higher **PCB** concentrations?

3. For the *two-sample t* using the **PCBs** data, provide the following:

The test statistic value is $t =$

The p-value =

Is the difference in **PCB** concentrations statistically significant (using $\alpha = 0.05$) (Yes/No)?

4. Write the **95% confidence interval** for the *effect size* $\mu_x - \mu_y$ for **PCB** below.