ENS 495 Fall 2017

Problem Set: Chapter 12 Comparing 2 means

Name: _____

Discussion among students is encouraged but all answers must be written in your own words. Points will be deducted if you answers are identical to other students.

Stalk-eyed flies

Ch 12	a)	**What is the best test to use:** 1-tailed t-test / paired t-test / 2-sample t-test
18		**Why:**
	new	**What is the sample size within each diet group?** _____
	new	**What type of variable is "diet"** _____
	new	**There are fewer bars in the corn diet histogram (4 bars) vs. cotton diet (11ish). Why?**

Genes *per* versus *tim* mutations

19	new	**What is the impact on "power" of the samples sizes being different?** **Power is .....** Increased / decreased / not changed / .... the concept of power isn't relevant here
	b	Are the variances (var) the same or different? Same / different
		Show calculation:
	new	**What is the best test to use:** 1-tailed t-test / paired t-test / 2-sample t-test
		Why:

Electric fish

20	new	**What is the best test to use:** 1-tailed t-test / paired t-test / 2-sample t-test **Why:**
	c	What **"assumptions"** do you have to make to carry out this analysis?

Seals

24	new	**What is the best test to use:** 1-tailed t-test / paired t-test / 2-sample t-test
		Why:

Hyeanas

27	new	**What is the best test to use:** 1-tailed t-test / paired t-test / 2-sample t-test **Why:**

Bluegilss

30	**What is wrong with this conclusion:**
	What analysis should've been done?