Biology 4605/7220 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13 November 2009 Worksheet from Exam 2

For the following tests list the number of ratio scale explanatory variables, the number of categorical scale explanatory variables, and the number of interaction terms.

Ratio Categorical Interaction

oneway anova \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

twoway ANOVA \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

comparison of mortality rates in 3 species,

mortality rate is the slope of

regression of survivors on time. \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

heart rate of marathon runners

compared to sprint runners,

controlled for body size (weight) \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

carpal tunnel symptom severity with

and without surgery,

in 4 different hospitals \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

regression analysis of growth rates in age 7

children as a function of birth weight \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

power laws are used to describe the relation

of lobster egg number to size (carapace length)

compare power laws for lobsters from Virginia,

Maine, Nova Scotia, and Newfoundland \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

with the bicycle ECG stress test, does maximum power

output by male and female patients depend on

whether the investigator is male or female? \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

do the results for the analysis above differ

among cardiac units (different hospitals)? \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_

material below from Sorenson deleted in 2019