Biology 4605/7220
28 October 2011 Worksheet for Exam 2 Part 1

For the following tests list the number of ratio scale explanatory variables, the number of nominal scale explanatory variables (factors), and the number of interaction terms.
Write a GLM with df below each term.

	Ratio	Factors	Interaction
1. Oneway ANOVA comparing hematocrit in 3 treated groups and one control group. N = 10 in each group.	____	_____	_____
2. Twoway ANOVA for BACI design (before / after at control and impacted sites, in environmental assessment). N = 4 measurements at control before impact, 4 at impacted before impact, then after impact 4 more at control and 4 more at impact site.	_____	_____	_____
3. Paired comparison of reaction times in 30 subjects, before and after alcohol intake.	____	_____	_____
4. Carpal tunnel symptom severity with and without surgery, in 4 different hospitals (ntotal = 32)	____	_____	_____
5. Regression analysis of growth rates in 25 babies as a function of birth weight	_____	_____	_____

Y = response variable = _____