**Lab 6 Question Sheet: Student Name:**

**Id Number:**

**Lab Stream:**

**Question 1** (1 point): Translate our ecological hypothesis (“Is the growth rate of barley (*Hordeum vulgare*) influenced by the depth of planting?”) into a statistical hypothesis.

**Question 2** (2 points): Are our data normally distributed? Enter in the tests (R code) and results. What test should we run?

**Question 3** (2 points): Run a parametric and non-parametric correlation test. Enter the R code, correlation values and P-values.

**Question 4** (1 points): Run a linear regression. Enter the R code to run it here, as well as the output.

**Question 5** (2 points): Enter your ggplot of the linear model here (you will need to sensibly export it from R). Be sure to properly title and label your graph. Include the code used to make it.

**Question 6** (2 points): What are the overall statistical conclusions from our analysis?

**Question 7** (2 points): Propose a biological interpretation of our results.