# Submission Document

## Practical 2 – Introduction to Geotadabases and Raster Geographic Data and Analysis

Student ID:

Student Name:

Lab Attending (Please mark): **A** - submission due **Tuesday, 31 March 23:59**

**B** - submission due **Thursday, 2 April 23:59**

**C** - submission due **Thursday, 16 April 23:59**

**Please use the pages that follow to provide your answers. When you are finished, convert this document to PDF, and submit online at Canvas.**

**Question 1:** What information do the “value” and “count” fields contain? What could we interpret about a raster layer, if the all of the count values were equal to 1?

**Question 2:** What do the values of “1” in the FLOOD raster layer represent? What is the reason that we use zero for the rest of the original raster layer?

**Question 3:** What do the values in the BestSoil raster layer represent?

**Question 4:** Show using matrices the process of a simple raster overlay using map algebra and explain why the use of “zero’s” is important?

## Question 5: In the context of this project, what do each of the values contained in the raster layer called “sorg\_regions” represent as a result of the region groups function? How many individual regions are there?

**Question 6:** Only areas larger than 10 hectares are considered to be useful for sorghum cultivation. List the area values for all zones larger than 10 hectares.