Quiz 2 Spatial Data Management Name: Student ID:

1. (2pts) Briefly explain the concept of a datum using an example
2. (1pt) Briefly explain why we should care about the spatial reference system when using spatial data
3. (1pt) A spatial database includes the definition and support of spatial abstract data types and their relations. Please give an example of the relations.
4. (3 pts) What are the three challenges that MapReduce intends to solve when dealing with Big Data using clusters of computers? Please also briefly explain these challenges in addition to name them.
5. (3pts) Please briefly explain the Map, Group by key, and Reduce steps using an example.