GEOGRAPHY 176B FINAL EXAM

Wednesday March 17, 9.00-11.00 am

Answer Question 1 and one other question

1. Define and illustrate the meaning of **five** of the following terms:

     a. 2.5D

     b. Arc

     c. UML

     d. Abstract class

     e. Spatial dependence

     f. Areal interpolation

     g. Cross-validation

     h. National Grid

2. What do you understand by the term *model* in the context of this course? Explain each of its meanings, and discuss the difference between analysis and modeling, in terms of objectives, applications, and usefulness.

3. What methods exist for representing terrain elevation in a GIS? What types of terrain are particularly suited to representation by each method? What methods are used to collect elevation data, and what issues of accuracy arise in each case? Give a brief review of some of the methods of analysis of elevation data that you have encountered in this course.

4. "No representation of geographic phenomena can ever be perfect". Is this true, are there exceptions, and what implications does this statement have for users of GIS?