

**EXAMINATION**  
**SGO1910 GEOGRAPHICAL INFORMATION SYSTEMS**

**2 December 2009**  
**(3 hours)**

No aids are permitted during the exam.

Results will be posted on the StudentWeb on the 23 December 2009 at 2.00 p.m. and will be available to the candidate from approximately 3.00 p.m.

The results are considered official on publication in StudentWeb, and students are responsible for checking their result at this time. If you want an explanation regarding the grade you must apply **within one week** after the result is published in StudentWeb. If you regarding the grade must be lodged within three weeks after the grades are published in StudentWeb.

This examination paper consists of **2 pages**, including this page.

The candidate must submit both the original and the copy of their answers to the examination.

NB! Make sure the copy is legible.

Remember to write down your candidate number for later use.

**GOOD LUCK!**

**You must answer both parts. Part I is worth 25 % and Part II is worth 75 % of the total grade of the exam.**

**Part I. Short answers (this part is worth 25%)**

*Describe the following GIS concepts in no more than 3 or 4 sentences.*

1. Attributes
2. Cartography
3. Metadata
4. Secondary data
5. Spatial data

**Part II. Essay questions (this part is worth a total of 75%)**

*Answer **three** of the following questions as completely as possible.*

1. Is it fair to say that an undocumented dataset is a worthless dataset? What kinds of documentation add value to a dataset?
2. Why is it useful to view GIS as a process rather than merely software or hardware?
3. What is generalization and why is it necessary?
4. In their paper “GIS and Mapping”, Kent and Klosterman describe some common mistakes planners make in preparing maps. List and describe three of them.

**Good luck!**