

Name \_\_\_\_\_ Lastname \_\_\_\_\_ Student number 

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## **Software Engineering academic year 2007-08**

### **Rules**

- This is a closed books exam.
- The operation of any electronic device is prohibited (e.g, no calculator, phone or PDA).
- Detail all answers with extensive explanations.
- Write as clearly as possible, both in terms of handwriting and wording.

### **Questions**

1. Consider one of the following applications: Skype, aMule, Firefox and Eclipse (in case none of them are known to you, use another existing one you know about). For the application you chose, provide the following: a functional requirement, a non-functional requirement, a user requirement, a system requirement. Prioritize the four requirements provided.
2. Consider the project of driving a car from Groningen to Cape town. One starts from the idea and has to find sponsors, buy the car, find teammates and perform the actual trip. Identify activities, tasks and milestones for successfully executing such project.
3. Illustrate the requirement engineering process.
4. Explain the importance of versioning systems in software engineering. Explain the copy-modify-merge access model in comparison with a locking model and its advantages or disadvantages for versioning systems in the context of software engineering.
5. Explain the similarities and differences between objects, components and services with particular emphasis on software engineering processes.