

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).
- Answer the questions being *precise, complete, and formal*.
- Write as *clearly* as possible, both in terms of handwriting and wording.

Questions

1. Consider the application Microsoft Excel (in case you do not know it, use another existing application you use frequently). Provide a functional requirement, a non-functional requirement, a user requirement, and a system requirement. Prioritize the requirement provided.
2. Identify activities, tasks, milestones for the project of building an on-line multiplayer treasure hunt game.
3. What are the advantages and disadvantages of software reuse? Provide an example of software reuse.
4. Define the concept of a Software Architecture. Provide an example of a Layered architecture and an example of a Reference architecture.
5. Explain the differences between the locking approach and the copy-modify-merge one to concurrent resource access. Discuss the advantages and disadvantages of the two approaches.