

## S-72.3260 Radio Resource Management Methods 3 cr

Exam 10.1.2012

Part A: Closed book tasks (2 tasks)

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The examination consists of two parts. When you have done the tasks in Part A (closed book) you should give the answers to the exam supervisor, and then you will get Part B (open book) including 4 problems, out of which 3 best will be graded. You are allowed to use any literature that you feel useful in part B.

You can decide yourself the time you spend with each part, but the total exam duration is 3 h. You can leave the exam room 1 hour after the exam start.

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### *Problem A.1*

Describe briefly the following concepts

- a) Near-far problem (2 p)
- b) Dynamic channel allocation (2 p)
- c) Dynamic spectrum access (2 p)
- d) Handover prioritization (2 p)
- e) Subcarrier allocation (2 p)

### *Problem A.2*

Discuss how the relationship between radio resource control interval and coherence time of the channel impacts radio resource management (required feedback rate and capacity, performance, decision errors etc.) in case of

- a) admission control (2.5 p)
- b) load control (2.5 p)
- c) power control (2.5 p)
- d) packet scheduling (2.5 p)