POSSIBLE TOPICS FOR THE EXAM TMA4295 7/12-2009

- > Transformation of stochastic variables
- > Gamma distribution
- > Convergence in probability and in distribution
- Central limit theorem (CLT)
- > The Jensen and Cauchy-Schwartz inequalities
- Maximum likelihood estimator (MLE)
- Consistent estimator
- Complete statistic
- > Sufficient estimator, the factorization theorem
- Minimal sufficient statistics
- Rao-Blackwell's theorem
- Invariance of MLE
- > UMVUE
- Asymptotic efficiency of MLE
- > Hypothesis testing

The definitions, results and properties pertaining to the list above that you cannot remember, you should write down on the stamped yellow sheet.