

Exam 06.06.2015

521340S Communication Networks I (Tietoliikenneverkot I)

1. Discuss Mobility Management for Mobile IP in detail.
2. Discuss in detail the following issues in network security
 - a) Cryptographic authentication
 - b) An asymmetric two-way authentication.
 - c) Operation of public key encryption system
 - d) Key management
3. What are the main characteristics of mobile TCP?
4. Discuss in detail the following design issues in Multihop Cellular Networks
 - a) Interference issues (channel contention and Intercell interference)
 - b) Topology control algorithms
 - c) Radio resource management
 - d) Heterogeneous cellular networks
5. Describe LTE system architectures.