Exam 8.2.2013

521340S Communication Networks I (Tietoliikenneverkot I)

1. Discuss in detail TCP protocols:

    a. Reno/New Reno protocol
    b. Random Early Detection (RED) protocol
    c. Vegas version of TCP and the Explicit Congestion Notification (ECN)

2. Discuss in detail the following issues in sensor networks

    a. Data centric routing
    b. Data aggregation
    c. Flooding/gossiping
    d. Data funneling

3. 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

4. Discuss in detail Ad Hoc Network Management

5. Explain the evolution from GSM/GPRS to UMTS