Protocol Theory 8.5.2003

1. (a) What is $GF(2^3)$?

    (b) What is the difference between Aloha and CSMA/CD?

    (c) What is OCPC assumption?

    (d) What is flooding?

2. Using primitive polynomial $x^3 + x^2 + 1$, encode octal number 53261 with Reed-Solomon coding.

3. (a) What are Chernoff bounds?

    (b) Estimate with Chernoff bound, how probable is it to get at least 70 heads with 100 tosses of coin. (Exact numeric value is not required.)

4. Give an overview, how routing in Internet works.