Tentamensfrågor Datornät - Administration

1. Explain two pros and two cons of using public key auth with OpenSSH. (4 p)
2. How can you get nearly the same functionality with DHCP as using static IP addressing? That is, how can you be sure a computer always gets the same IP using DHCP? (1 p)
3. Explain the purpose of the DNS system. Also explain the naming hierarchy the DNS system uses. (4 p)
4. How can companies and organizations add their own items/OIDs to monitor in the SNMP OID tree? (1 p)
5. Explain the difference between normal SNMP polling and SNMP traps. (2 p)
6. You're given the task to plan and set up a network on a company manufacturing candy and other sweets. There are two sites, the factory and the offices, they're separated by 1 km.

   The factory workers use tablet PCs to aid them in the production, in the offices there's a mix of desktop computers, laptops and smart phones.

   What kinds of physical networks would you install in each building and how would you connect the two sites (office and factory) with each other? Why have you chosen this configuration? What are the pros and cons of your choices?
   (5 p)