Examination in Medical Informatics, vt 2007

Date: 2007-06-01
Writing time: 1 hour
Max. credits: **20p, No pass < 10p**
Give short answers, but also include short explanations.
Write your name on all papers.
Good Luck!!!

1. Explain shortly the following abbreviations and concepts from medical informatics: (4p)
   - PACS
   - CT
   - MR
   - PET
   - Invasive
   - Benign and malign
   - Angiography and mammography
   - Clinical trial

2. What is important to consider when you design IT systems, information systems etc for health care, in order to support the users and contribute to high usability? Give e.g. short comments regarding: (5p)
   - Design of user interfaces
   - Suitable interface metaphors
   - Systems integration and communication
   - Physical design of the work-place
   - Accessibility to information.

3. Describe shortly some important aspects regarding patient safety in health care. How can medical technology be design in order to promote highest possible safety? (4p)

4. Discuss some important problems that can occur if you want to introduce a new system for medical records in a large hospital organisation. Discuss some important aspects regarding e.g. technical solutions, competences, organisation and the deployment process. (4p)

5. There are many laws that control what you must do and what is not allowed in health care. Answer shortly the following questions:
   - What is the content of “Lex Maria”? (3p)
   - Who “owns” the patients medical record, i.e. who has the legal control over the medical record? (3p)