BME-2606 eHealth
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No materials are allowed

Answer to each question. Each question is worth 6 points.

1. Define or explain the following terms in short
   a. eHealth
   b. Store-and-forward telemedicine
   c. EHR
   d. eArchive
   e. eAccess (a.c.a. eView)
   f. Choice architecture

2. **Interoperability.** Define what is interoperability (1p). What is functional interoperability and semantic interoperability (2p)? Mention at least 4 challenges in health information systems interoperability (2p).

3. **Chronic disease management.** Increase in chronic diseases and health care resource shortage are trends which impact on the demand for eHealth solutions. What are the two main reasons for increase in chronic disease incidence (2p)? How eHealth solutions may play a role in responding to these trends (mention and shortly explain two approaches to respond to the trend, 4p)?

4. **Human-centered design.** Define what is User Experience (UX), Usability and User Interface (3p). Who are the users whose needs must be accounted for while making HCD process for an eHealth system for remote monitoring of a diabetic patient (3p)?

5. **eHealth evaluation.** What is the purpose of eHealth evaluation (2p)? What are three central issues which need to be defined carefully in an evaluation process (1p). Mention at least six issues which are typically and importantly assessed in eHealth evaluation (3p).