

1. Explain shortly what is meant by the following concepts in software engineering. (1.5p each)

- a) capability maturity model, CMM
- b) formal technical review
- c) RAD (Rapid Application Development)
- d) black box testing
- e) unit testing
- f) abstraction

2. It is wise to consider risks in the beginning of a software project.

- a) What is risk identification and how it is done? (4p)
- b) How risks related to project personnel can be avoided? (2p)

3. a) What is meant by costs of software quality? Describe what kinds of software quality costs there exist, and how they arise. (3p)

b) Describe characteristics of a good software test. (3p)

4. a) Describe those UML diagramming techniques that can be used for modeling object interactions. (3p)

b) Explain the principles of hierarchical software modeling in the SA/SD method. (3p)