Homework 3

Intro to Software Engineering

Due: Jan, 2nd 14

1. a. List at least four types of systems tests. (4%)
2. What are the differences between validation testing goals and acceptance testing goals? (4%)
3. What is regression testing? When and how it can be used? (8%)
4. Consider the testing in Web applications/services,
5. What are to be tested for the interface? (5%)
6. How to test the navigation in these applications? (5%)
7. a. What are done and what cannot be done in software review? (5%)

b. What are the metrics applied in software review? (5%)

1. a. Define a software metrics. (4%)

b. Describe the four steps to develop a metrics discussed in class. (8%)

1. List the quality characteristics and sub-characteristics in ISO 9126. (8%)
2. a. Describe statistical quality assurance? (4%)
3. What are the goals for the project SQA activities? (4%)
4. List the tasks performed by the SQA group. (4%)
5. a. Describe the mitigation, monitoring, and management of risks. (4%)
6. Compare the risks due to customers and process maturity. (6%)
7. a. What is software maintenance? (4%)
8. What software is maintainable? What not? (6%)
9. a. What is Business process reengineering, BRP? (4%)
10. What are the principles for BRP? (4%)
11. What is reverse engineering? (4%)