

Software Engineering Q/A Sheet (#3)

date:_____ number:_____ name: _____

Questions from Prof.

1. Explain the strengths and weaknesses of the Waterfall model.
2. Explain the strengths and weaknesses of the incremental model.
3. Describe the concepts of refactoring and find examples of them.
4. Compare the waterfall model with the incremental model for the workflow.
5. Describe four fundamental process activities.
6. Describe the requirement engineering process with key activities and their work products.
7. Describe the differences between component, system and acceptance tests.
8. On slide 28, discuss when to plan each test with why.
9. Change is inevitable in every large software project. There are two related approaches you can use to reduce rework costs. First, explain the concept of rework and describe two related approaches.
10. On side 38, discuss the benefits of prototyping. and explain the reasons for them.
11. Compare throw-away prototyping with exploratory prototyping.
12. With incremental delivery, customers can feel more confident about the system. Guess why.
13. Complete testing is impossible in practice. Discuss cost-effective testing strategies in development environments where time and cost are insufficient. -
- Hint1: Take advantage of available statistics.
- Hint2: If we don't have enough time and budget, we need to make choice and concentration. This is always the case in real development situations. There is a very interesting investigation in this regard. According to an IBM study, a company tried to eliminate 65% of the defects in a system, but the reliability improvement of the system that the customer felt was only 3%.

Questions from your ownself

- 1.