

Final Exam

- This test contains 7 questions, each has the same weight.
- You have 2 hours to complete this exam.
- You may **not** use books, notes, or any other reference material.
- Do not turn this page until instructed to do so.
- Some questions are about your semester project. Do not use the exam to summarize your contributions to the project or the merits of the project. I will grade your exam on your thoughtful analysis of your group and your project.

1. Your group created two lists of risks, one in mid September and one at the end of October. How did the risks change? What risks were on the September list that were not on the October list? What risks were on the October list that were not on the September list? How did the risk exercises guide your development.

2. What are some aspects of programming style you think are important? What style aspects of your programs could use some improvement?

3. Was the software engineering approach taken by your group traditional, agile, or *ad hoc*? Justify your opinion. If you were to develop your class project as a commercial product, which approach would you want to take and why?

4. How do the *Pragmatic Programmer* and *Peopleware* books conflict with traditional software engineering? Illustrate your answer with some concepts from these two books that are not mentioned in main stream software engineering.

5. Is software development cost estimation a well formed science? Explain why or why not. What aspects of software development can (or should) be estimated? Why should they be estimated?

6. The director of research character in the movie *The Abilene Paradox* thought it was a stupid idea to attempt to turn peanut oil into jet fuel. Why didn't he speak up? Why is this relevant to software engineering?

7. Quality is a difficult word to define. It has different meanings in different contexts and means different things to different people. Outline a plan that a software development company could use to develop a corporate definition of quality.