

### Final Exam

- This test contains 6 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.
- Many 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.
- I am familiar with all of the groups and the projects. I've watched the groups interact for the last 3.5 months. I have a semester's worth of contributions logs and status reports, critiques of group members, and all my notes from the software presentation and post mortem exercise. When answering questions about your project, don't assume I know nothing about the project. In other words, I want thoughtful analysis, not bullshit.

1. What is risk management? Clearly describe how risk management can be used in the software development process. How did your group use risk management? What were the top three risks in your project?
2. Describe the good and the bad aspects of communication in your group? Include all relevant types of communication: meetings, e-mail, telephone, etc. Include all aspects relevant to your group: communication style, personalities, documenting communication, conflict, etc. Assuming you were starting a new project with the same group, what could you do to improve communication?
3. How does employee turnover affect software productions? Why do people quit? Why do people stay? What did you learn about your group from the turnover exercise?
4. Assumed you were hired by a small company to improve their software quality. What would you do and why? I want a clear plan of action with an explanation of each action. I do not want a list of software engineering terms.
5. What is the difference between brain-time and body-time? If you were hired by a company to improve the brain-time/body-time ratio what would you do and why?
6. What steps should a company take to create a software metrics program?