

## Software Engineering Q/A Sheet (#2)

date:\_\_\_\_\_ number:\_\_\_\_\_ name: \_\_\_\_\_

### Questions from Prof.

1. Compare sociotechnical systems to conventional technical computer-based systems.
2. Explain the difference between a hardware failure and a software failure. Note that a hardware failure is represented by a bathtub curve.
3. Describe the propagation of failures between hardware, software, and operators.
4. Explain the entire system engineering process including conceptual design, procurement, development, and operation.
5. List everything you think is necessary for parallel development of large systems.
6. Explain the system development process from requirement engineering to system deployment.
7. Describe the types of procurement decisions and why they are important, particularly affecting system functions such as stability.
8. Discuss how the various activities of the system development process affect system dependability.
9. Discuss one or more examples of various barriers to protecting against human errors leading to system failure.
10. Explain why the evolution of large systems is expensive.

### Questions from your ownself

- 1.
- 2.