

# CS3733-B03 Software Engineering Midterm Exam

Name:

Answer all of the questions as completely as possible. Do your own work. There is an academic honesty policy at WPI and it will be enforced. Good luck.

## Part 1: Basic Knowledge (60 points)

1. For the five requirement statements below, indicate what type of requirement it is, Functional (F), Usability (U), Reliability (R), Performance (P), or Scalability / Supportability (S).
  - a. \_\_\_\_\_ Someone who has taken a basic UML course shall be able to create a class diagram without referencing the on-line help or other help documentation.
  - b. \_\_\_\_\_ The system shall encrypt all transaction data and sign it with the user's private digital signature.
  - c. \_\_\_\_\_ The system shall handle a maximum load of 20 million transactions in a 24-hour period.
  - d. \_\_\_\_\_ The system shall be able to accommodate an unlimited number of users by adding additional processing nodes to the corporate network.
  - e. \_\_\_\_\_ All users of the system will be able to create an account and select their own passwords. The only restriction is that the user name and password combination must be unique.
  
2. In a couple of sentences, describe the difference between iterative development and incremental development.

3. Fill in the blanks, taken from the Agile Manifesto.

The four value of Agile software development are:

Individuals and interactions over \_\_\_\_\_

\_\_\_\_\_ over comprehensive documentation

\_\_\_\_\_ over contract negotiation

Responding to change over \_\_\_\_\_



