Your UCInetID:	@ uci.edu	Circle your discussion start time:	9:00 am
			10:00 am
Informatics 43	- Spring, 2015 -	- Midterm 1	11:00 am
			12:00 pm
First (given) name:	Last (family) n ters, with a slight space	ame: between each letter. Thank you.	1:00 pm
page 1 page 2	page 3 page 4	Total	2:00 pm
1. (6 points) Brooks names "conformity systems". Explain what he means by	•	firreducible essence of modern software	:
systems. Explain what he means of	y comormity.		
2 (6 :			
2. (6 points) Why might it be surprising programmers in the United States are			
r - 3			
3. (6 points) Within the context of requ	irements engineering	what is the primary purpose of	
creating a prototype?	nements engineering	, what is the primary purpose of	
4. (6 points) Parnas and Randell descri	be software engineeri	ng using a sentence that includes the	
prefix "multi-". Write down the con	~		

<ul> <li>(9 points) Imagine that you are writing the Requirements Specification for the EEE DropBox.</li> <li>For this system, make up an example (using one sentence each) of         <ul> <li>a functional requirement</li> </ul> </li> </ul>
• a non-functional requirement
• a design constraint
(6 points) What is the primary characteristic of the Waterfall Model of software development?
(6 points) Following the thinking of Brooks in <i>No Silver Bullet</i> , give an example of an accidental aspect of software.
(6 points) In the Requirements phase of software development, what purpose is served by identifying and writing down use cases? (Prof. Frost and the textbook are not in complete agreement on this, so bonus point for explaining their different perspectives.)

9.	(6 points) What are informally referred to as the "ilities"? Give both a definition and an example.
10.	(6 points) Name one of the top three failure factors for software projects, according to the Chaos report cited in the textbook.
11.	(6 points) Name and briefly define the two main tasks of requirement analysis.
12.	(6 points) What role does Brooks see, in <i>No Silver Bullet</i> , for rapid prototyping as a potential "silver bullet"?

13.	(8 points) Who are the two audiences of a requirements specification document? Briefly explain the needs of each audience.
14.	(9 points) In lecture it was mentioned that a requirements specification document might actually be part of a contract. If that were the case, what effect would being part of a contract have on how the document was written?
15.	(8 points) What would be an advantage of planning software development with the Incremental Software Process Model, in comparison to the Waterfall model?