CIS 234 Final Examination

Cover Sheet

Name:

_____

Date:

_____

For the exam, you are to provide a set of prepared answers. You will be provided with these questions before the exam. No notes, internet access or communications are permitted during the exam, unless stated in the following instructions. **Staple your writing to this cover sheet**.

1.

Provide a javadoc of your project 4 code. This entails following instructions presented in the following video.

- https://youtu.be/G1cbk3ch7y0

- The javadoc process yields a complete website which documents each method and member variable for each class. Be sure to document each class you write, excluding the main.
- You will be asked several questions on the content of Assignment Four in the following questions.
- *At all times, refer to the javadoc you turn in to substantiate your responses.*
- Provide the javadoc output (several long webpages) in a printed form. Please perform the javadoc process before arriving at the exam.

2.

Compare and contrast the benefits of using file I/O versus using a java class. What strategic advantages are offered by each, exclusively?

3.

During the first half of the semester you created a market of stock objects. In the second half, you crafted a means of simulating the activities of thousands of buyers and sellers.

- What strategies did you use during the creation of the market object in main, which you later used to simulate the rush of buyers descending upon the market? What strategies did you employ to lessen strain upon RAM used to support the entire application? Refer to specific methods present in your javadoc.

4.

Research the definition of the term 'engineer.'

- Given its many applications in technology (structural, civil, mechanical, industrial, biomedical, et cetera), why are we to call modern programmers software engineers?
- Is this a legitimate term, when compared to the work of other engineering professionals?
- Where in your work were you required to apply an engineering rubric to produce working code?
- Differentiate the work you did this term from the activities by a software engineer who supports the business processes at a company. Would a company need less-complex systems than the market simulation you coded this summer?
- How would the work of augmenting human business process be different than more mathematical, game-theory simulations you provided in section 1, above?