**CS 3365 Software Engineering I**

**Homework 03**

**Due Date: 11:59 pm, Wednesday, 11/20/2019**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Because of the close relationship between non-functional system characteristics and software architecture, the choice of architectural style and structure should depend on the non-functional requirements of the system. Please list 5 of those non-functional requirements and briefly explain each of them.
2. Explain why design conflicts might arise when designing an architecture for which both availability and security requirements are the most important non-functional requirements.
3. Explain the advantages of the layered architecture pattern. Name one disadvantage of the traditional layered architecture pattern.
4. Explain responsibilities of MVC components in Web application
5. Explain the advantages and the disadvantage(s) of the client-server architecture pattern.