CS 5352/6352 Computer Security

Homework 1 **Elaborately explain in your own words (30 pts)**

 Explain briefly the CIA tria 	d of computer security. Can w	ve survive with any	two of the triad
leaving the third one? Explain	your reasoning with example	es.	

- 2. Why is computer security so challenging? Who are the attacker agents that we defend against?
- 3. Define vulnerability, threat and control. Give your own example to explain them.
- 4. What is the difference between hub and switch? From the security perspective, which one is preferable and why?
- 5. Briefly mention the 7 layers of OSI model and functionality of each layer. Imagine you are sending a confidential message to your friend via a chat application. Using the knowledge of layers, explain how this communication will take place through the network.