

CS 162 Fall 2003
Discussion Section Quiz 6
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1. What are the primary characteristics of a computer virus? What are some ways a computer virus can spread? How can a virus be detected?

2. Suppose we were using a security system using a key server. Assume that you are on machine S, and you want to communicate securely to machine T. All you have is a key that allows you to talk to the key server securely. How would you gain the ability to have secure communications with machine T?

3. Why is a completely random one-time pad (running key cipher) considered 'perfect encryption'?

4. What is a Virtual Machine Monitor? Why are they useful?

5. There are many problems with getting VMMs to work correctly. Many of these issues involve effectively multiplexing system resources in a transparent manner. Memory management we discussed in class; describe how you might manage distributing A) CPU time and B) the hard drive.