

## SYSTEMS HARDWARE

### LAB 5

#### DEALING WITH VIRUSES AND SPYWARE (20 POINTS)

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

**MATCHING** – Select the best type of virus to fit in the description below. Enter the letter next to the correct definition. (Each ½ point for 4 ½ points)

A. File viruses	E. Worm virus
B. Boot sector virus	F. Trojan horses
C. Macro virus	G. Stealth virus
D. E-mail virus	H. Polymorphic virus
	I. Hoax virus

\_\_\_\_\_ These are false reports about non-existent viruses, often claiming to do impossible things. Unfortunately some recipients occasionally believe a hoax to be a true virus warning and may take drastic action (such as shutting down their network).

\_\_\_\_\_ Program placed in the computer's boot sector. Because the computer loads boot sector information into memory, the virus loads into RAM at the same time.

\_\_\_\_\_ An e-mail virus moves around in e-mail messages, and usually replicates itself by automatically mailing itself to dozens of people in the victim's e-mail address book.

\_\_\_\_\_ A small piece of software that piggybacks on real programs. For example, it might attach itself to a program such as a spreadsheet program. Each time the spreadsheet program runs, the virus runs, too, and it has the chance to reproduce (by attaching to other programs) or wreak havoc.

\_\_\_\_\_ A small piece of software that uses computer networks and security holes to replicate itself. A copy of the worm scans the network for another machine that has a specific security hole. It copies itself to the new machine using the security hole, and then starts replicating from there, as well.

\_\_\_\_\_ This program claims to do one thing (it may claim to be a game) but instead does damage when you run it (it may erase your hard disk). Trojan horses have no way to replicate automatically.

\_\_\_\_\_ Written in a specific language and attaches itself to a document created in a specific application such as Excel or Word. Once the document (along with the virus) is opened and loaded into memory, the virus can attach itself to other documents.

\_\_\_\_\_ A program written to avoid anti-virus software detection. When the anti-virus program executes, this virus provides the anti-virus software with a fake image.

\_\_\_\_\_ This virus constantly changes in order to avoid detection by an anti-virus program.

**TRUE OR FALSE** - Place a T or F in front of the appropriate statements (Each ½ point for 2 ½ points)

\_\_\_\_\_ You have the latest ant-virus software from Norton. Your computer gets a computer virus that slipped through the virus scan. Norton detects that there is a problem. There is a 100% guarantee that Norton Anti-Virus will remove that virus completely.

\_\_\_\_\_ Spyware is a form of a computer virus.

\_\_\_\_\_ Before performing any procedure for removing a virus, you should research it on the Internet and find out what how to remove it and what damage it causes.

\_\_\_\_\_ All viruses will cause damage to your computer and send your personal information to someone on the Internet.

\_\_\_\_\_ You have a computer that has no Internet access at all. It is designed to be a “stand alone system” never to connect to the Internet, so you don’t need any anti-virus software.

---

**FILL-IN:** Answer each question in as much detail as possible (each ½ point for 2 ½ points)

What are the 5 steps in preventing a computer virus?

- 1.
- 2.
- 3.
- 4.
- 5.

Why do they call it a computer **Virus**? (for ½ point)

**INTERNET RESEARCH** – Connect to the Internet and answer the following questions (10 points).

(For 5 points) Connect to <http://www.sophos.com>

1. Give the name of the most recent virus threat today.
2. What type of virus is it?
3. How does it spread?
4. What operating system(s) does it affect?
5. What are some of the side affects of the virus?

(For 5 points)

**FOLLOW THESE INSTRUCTIONS  
CAREFULLY!!!!!!**

You are not being graded on correct answers for the following, only on the activity, therefore you must follow these instructions exactly.

1. Connect to the following link:

<http://www.microsoft.com/athome/security/quiz/pypcbasics1.msp>

2. Take the basic quiz and **print** out the results page.
3. Take the advanced quiz and **print** out the results page.
4. Attach both result pages to the **back** of your LAB when you turn it in.