

Social and Ethical Issues

(Solutions to Review Questions and Problems)

Review Questions

- Q20-1.** We mentioned three principle of ethics: *moral rules*, *utilization*, and *social contract*.
- Q20-3.** We mentioned the following code of ethics about privacy:
- a.** Collect only data are needed.
 - b.** Be sure the collected data are accurate.
 - c.** Allow individuals to know what data have been collected.
 - d.** Allow individual to correct the collected data if necessary
 - e.** Be sure that the collected data are used only for the original purpose.
 - f.** Use encryption techniques to accomplish privacy communication.
- Q20-5.** Penetration can be accomplished using *viruses*, *worms*, and *trojan horses*.

Problems

- P20-1.** This is considered a copyright.
- P20-3.** This is against the right to privacy.
- P20-5.** This is a denial of service attack.
- P20-7.** A virus is a program that is hidden in another program. A Trojan horse is a piece of code that is hidden in another program.
- P20-9.**
- a.** We can use physical protection by allowing only trusted people to use the computer.
 - b.** We can disallow access to data by using encryption software.
 - c.** We can install strong anti-virus software to disallow the destruction of data.