

## Answers of Chapter 1

"Discovering Computers 2011 : Living in a Digital World"

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### True/False

1. Many people believe that computer literacy is vital to success in today's world. **TRUE**
2. Hardware consists of a series of instructions that tells the computer what actions to perform and how to perform them. **FALSE**
3. The circuitry of the system unit usually is part of or is connected to a circuit board called the server. **FALSE**
4. Green computing involves reducing the electricity consumed and environmental waste generated when using a computer. **TRUE**
5. The client controls access to the resources on a network. **FALSE**
6. Web pages rarely have built-in connections, or links, to other documents, graphics, other Web pages, or Web sites. **FALSE**
7. A video sharing community is a type of social networking Web site that allows users to store and share their personal videos. **TRUE**
8. A text message is a short note, typically fewer than 300 characters, sent to or from a smart phone or other mobile device. **TRUE**
9. Because embedded computers are components in larger products, they usually are small and have limited hardware. **TRUE**
10. Telecommuting is a work arrangement in which employees work away from a company's standard workplace and often communicate with the office through the computer. **TRUE**
11. With online investing, the transaction fee for each trade usually is much more than when trading through a broker. **FALSE**

## Multiple Choice

1. **Computer literacy, also known as digital literacy, involves having a current knowledge and understanding of COMPUTERS AN THEIR USES (B)**
2. **DATA(A) is/are a collection of unprocessed items, which can include text, numbers, images, audio and video.**
3. **A PHOTO SHARING COMMUNITY (C) is a specific type of social networking WEB site that allows users to create an online photo album and store and share their digital photos.**
4. **A PODCAST(A) is recorded audio on a Web site that can be downloaded to a computer or portable media player.**
5. **SYSTEMS SOFTWARE(A) consists of the programs that control or maintain the operations of the computer and its devices.**
6. **An INSTANT(B) message is a real-time Internet communication, where you exchange messages with other connected users.**
7. **Many large companies use the words, ENTERPRISE COMPUTING(B) to refer to the huge network of computers that meets their diverse computing needs.**
8. **A NEURAL NETWORK(D) is a system that attempts to imitate the behaviour of the human brain.**

## Matching

1. **PROCESSOR** - Interprets and carries out basic instructions that operate a computer.
2. **EXECUTE** - Carry out the instructions in a computer program.
3. **MULTIMEDIA** - Combines text, graphics, audio and video into one application.
4. **APPLICATION SOFTWARE** - Programs designed to make users more productive and/or assist them with personal tasks.
5. **NEURAL NETWORK** - A system that attempts to imitate the behaviour of the human brain.
6. **PORTABLE MEDIA PLAYER** - Mobile device, on which you can store, organise and play digital media.
7. **ONLINE SOCIAL NETWORK** - Online community that encourages members to share their interests, ideas, stories, photos, music and videos with other registered users.
8. **INSTALL** - Set up software to work with a computer and other hardware components.
9. **DIGITAL CAMERA** - Device that allows users to take pictures and store the photographed images digitally, instead of on traditional film.
10. **STORAGE DEVICE** - Records (writes) and/or retrieves (reads) items to and from storage media.

## Short Answer

1. What is a computer?

A computer is an electronic device, operating under the control of instructions stored in its own memory, that can accept data, process the data according to specified rules, produce results, and store the results for future use.

2. What is the information processing cycle?

The IPC is the series of input, process, output and storage activities that process data into information.

**3. Describe two health risks posed by computers.**

**Prolonged or improper computer use can lead to injuries or disorders of the hands, wrists, elbows, eyes, neck and back.**

**Behavioural health risks include computer addiction (obsession with using a computer) and technology overload (individuals feel distressed when deprived of computers and mobile devices).**

**4. How might computers have a negative effect on the environment?**

**Computer manufacturing processes and computer waste are depleting natural resources and polluting the environment. Computers discarded in landfills release toxic materials and potentially dangerous levels of lead, mercury, and flame retardants.**

**5. What is a web application?**

**A web application is a web site that allows users to access and interact with software from any computer or device that is connected to the Internet.**

**6. What are some of the features on a Web 2.0 site?**

**Web sites that provide a means for users to share personal information (social networking sites), allows users to modify the Web site contents (blogs), and/or have software built into the site for users to access (web applications).**

**7. What are seven categories of computers?**

**Personal computers, Mobile computers and mobile devices, Game consoles, Servers, Mainframes, Supercomputers, Embedded computers.**

**8. What determines how a computer is categorised?**

**A computer's size , speed, processing power and price determines the category that it best fits.**

**9. How do Web sites benefit individuals' health care?**

**Many web sites provide up-to-date medical, fitness, nutrition or exercise information. These web sites also maintain lists of doctors and dentists to help you find the one that suits your needs. They have chat rooms, so that you can talk to others diagnosed with similar conditions. Some web sites allow you to order prescriptions online.**

**10. How does telesurgery differ from telemedicine?**

**Telesurgery – remote surgery – a surgeon performs an operation on a patient who is not located in the same physical room as a surgeon. The surgeon directs robots to perform an operation via computers connected to a high-speed network.**

**Telemedicine – health care professionals in separate locations conduct live conferences on the computer.**