

# Computer Based Information System

Computer based information systems (CBIS) is a data processing system into a high quality information and can be used as tools that support decision making, co-ordination, visualization and analysis.

‘In Information System’ computer-based means that the computer plays an important role in an information system.

**Elements of Computer based information system:** Computer based information system is an information system in which the computer plays a major role. Such a system consists of the following elements:

1. Hardware
2. Software
3. Data
4. Procedure
5. People

**Hardware:** The term hardware refers to machinery. This category includes the computer itself, which is often referred to as the central processing unit (CPU), and all of its support equipment.

**Software:** The term software refers to computer programs and the manuals that support them.

**Data:** Data are facts that are used by program to produce useful information like programs, data is generally stored in machine readable form on disk until the computer needs them.

**Procedures:** Procedures are the policies that govern the operation of a computer system.

**People:** People are required for the operation of all information system. Every computer based information system (CBIS) needs people if it is to be useful.

### **Advantages of CBIS:**

- 1. Access speed:** A computer-based system can short, store and retrieve data much more quickly.
- 2. The Cloud:** Cloud computing, also called “Software as a Service” (SaaS) is a system that allows you to use software online, rather than installed on a computer at your work site.
- 3. Communication:** Without computers your customers can contact you through phone, fax or postal mail, or by walking in the door. With computers, they can reach you through email, facebook and other social media sites and your website.

### **Disadvantages of CBIS:**

- 1. Unemployment:** While information technology may have streamlined the business process it has also created job redundancies, downsizing and outsourcing. This means

that a lot of lower and middle level jobs have been done away which cause more people to become unemployed.

**2. Privacy:** Though information technology may have made communication quicker, easier and more convenient, it has also brought along privacy issues. From cellphone signal interceptions to email hacking.

**3. Lack of job security:** Industry experts believe that the internet has made job security a big issue as since technology keeps on changing with each day.

**Challenges in implementation of CBIS:** Computer based information systems have found in almost all aspects of our life. Some of the important ones are:

- Science and Engineering
- Business and Commerce
- Education
- Health and Medicine
- Entertainment
- Agriculture
- Transport and Communication
- Banking and Finance

But there are some challenges in implementing the computer-based information system (CBIS):

- Workforce downsizing
- Employee mistrust
- Difficult to build
- Security breaches
- Rapidly changing technology
- Data protection and privacy laws