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Title: Introduction to computer systems.

Objectives:

- ① To know about computing and machines that are used for computing.
- ② To know about the basic system of computers and their working procedure.
- ③ To know about the components of a computer.
- ④ To know about computer storage, data, information and computer software.

Introduction:

Computer:

computer is an electronic data processing device which accepts and stores data input, processes the data input and generates the output in a required format.

To know the knowledge and understanding of computer and



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their uses is called computer literacy.

Information processing cycle of a computer:

The computers

take input from various devices such as printers, mouses, keyboards, modems, etc. Inside the computer, the machine processes it and send it either to the output devices such as monitors, speakers or in the storage devices according to the need to perform any operation given by a user.

Components of a computer:

The components of a computer can be categorized into two sections. Such as: the hardware and software. Each of the components is essentially useless without the other one.

The hardware are mainly the physical, tangible parts of a computer. Such as the keyboards, monitors, wires and chips, Hard disk, CD, DVD, RAM mother Board.



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The softwares of a computer are the programs and Data. A software is a bunch of program specially designed to perform any operation.

The hardware can be distributed into the category:

- (i) Input devices: Hardware used to enter data and instructions.
- (ii) System unit: In the C.P.U. Box the system unit contain electronic components which are used to process data.
- (iii) Output device: Hardware that conveys information to a user, for example: monitor, speaker, printer.

Storage

In every computer, there are some devices which holds data, instructions and information for future use.

- (i) Storage media: Physical material on which data, instructions and information are stored.

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Storage device: devices that records and retrieves items to and from a storage medium. The storage which processes data or stores data during processing is primary storage and not being used in processing is secondary.

The computer system: The computer system consists of

- | | |
|---------------------------------|----------------------------|
| ① Central processing unit (CPU) | and communication devices. |
| ② Primary storage | |
| ③ Secondary storage | |
| ④ Input devices. | |
| ⑤ Output devices. | |

Components inside the system unit and their description:

The common components

inside the system unit are:

- | | | |
|-----------------|---------|-------------------------------|
| ① Processor | ④ Ports | |
| ② Memory | | ⑤ Drive bays and power supply |
| ③ Adapter Cards | | |

The main circuit board inside the system unit which contains adapter cards, processor chips and other components is called mother board or system board.

Communication devices and buses:

provides connections between

computer and communication networks.

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Buses indicate the circuitry paths for transmitting data and signals among the parts of computer system.

Data Information and Software:

All computer processing requires data, which is a collection of:

raw-facts, figures and symbols such as numbers, words, images, video and sound, given to the computer during the input phase. Computers manipulate data to create informations. It is data that a) organized, meaningful and useful. These programs or series of program which controls any operation or performance. Application software consists of programs — more productive and to assist them with personal tasks.

Computer Performance:

Computer performance is determined by some parameters, such as: CPU speed, Ammount of RAM and Hard disk capacity and operating system used.

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Conclusion

The whole lab was specially designed for our in order to introduce ourselves to the basics of computer system and its components. The basic structures of computer system and how computers work. The lab highlights the basic procedure by which the computer performs any operation.

Reference:

1. www.wikipedia.org.
2. www.guava.com.