



VIDYA BHAWAN BALIKA VIDYAPITH

SHAKTI UTTAN ASHRAM, LAKHISARAI

INFORMATION TECHNOLOGY FOR CLASS 11

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COMPUTER FUNDAMENTAL

Functionalities of a Computer

If we look at it in a very broad sense, any digital computer carries out the following five functions:

Step 1 - Takes data as input.

Step 2 - Stores the data/instructions in its memory and uses them as required.

Step 3 - Processes the data and converts it into useful information.

Step 4 - Generates the output.

Step 5 - Controls all the above four steps.

Advantages of Computers

Following are certain advantages of computers.

High Speed

- Computer is a very fast device.
- It is capable of performing calculation of very large amount of data.
- The computer has units of speed in microsecond, nanosecond, and even .It can perform millions of calculations in a few seconds as compared to man who will spend many months to perform the same task.

Accuracy

- In addition to being very fast, computers are very accurate.
- The calculations are 100% error free.
- Computers perform all jobs with 100% accuracy provided that the input is correct.

Storage Capability

- Memory is a very important characteristic of computers.
 - A computer has much more storage capacity than human beings.
 - It can store large amount of data.
 - It can store any type of data such as images, videos, text, audio, etc.
 - Unlike human beings, a computer is free from monotony, tiredness, and lack of concentration.
 - It can work continuously without any error and boredom.
 - It can perform repeated tasks with the same speed and accuracy.
 - A computer is a very versatile machine.
 - A computer is very flexible in performing the jobs to be done.
 - This machine can be used to solve the problems related to various fields.
 - At one instance, it may be solving a complex scientific problem and the very next moment it may be playing a card game.
- Reliability
- A computer is a reliable machine.
 - Modern electronic components have long lives.

RAUSHAN DEEP

PGT (IT)

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