INTRODUCTION

TO COMPUTER

The word 'computer' has been derived from the Latin word 'computare', which mean to calculate. A computer is an electronic device that manipulates information or data according to the set of instructions called programs. It has the ability to store retrieve and process data.

• FUNCTIONS OF COMPUTER

- 1. **Input** Information or data that is entered into a computer is called input. Its send data and instructions to the central processing unit (CPU).
- **2. Processing** It is the sequence of actions taken on data to convert it into information which is meaningful to the user. It can be calculations comparisons or decision taken by the computer.
- **3. OUTPUT** it makes processed data available for the user.it is mainly used to display the desired result to the user as per input instructions.
- **4. STORAGE** It stores data and programs permanently .it is used to store information during the time of program execution and possible to get any type of information from it.

• FEATURES OF COMPUTER

1 SPEED the computer can process data very fast at the rate of millions of instructions per second.

2 ACCURACY computers provide high degree of accuracy. They response the users as per the input instructions.

3 storage capacity computers are capable to store huge amount of data which depends on the capacity of hard disk.

4 Versatility computers can do different types of work simultaneously. They can perform multiple task at same time.

5 DELIGENCE unlike human beings a computer is free from monotony tiredness lack of concentration etc. and can work for hours without creating any errors.

GENERATION OF COMPUTER

A generation refers to the state of improvement in the development of system each generation of computer is characterised by a major technical development that fundamentally changed the way computers operate.

Generations	Switching devices	Storage Devices	Operating system programing language	Characteristics	Applications
First (1940-56)	Vacuum tubes	Magnetic Drums (milli seconds)	Batch operating system machine language (Binary numbers O's and I's)	 Fastest computer devices Generate large amount of heat. Non portable 	Used more scientific purpose.e.g ENIAC,UNIVAC,MARK-1,etc
Second (1956-63)	Transistor (made up of semiconductors)	Magnetic core technology (micro seconds)	Time sharing OS,multitasking OS/Assemble language high level language	 More reliable and less prone to hardware failure Portable and generate less amount heat 	Used for commercial production .E. GPDP-8 IBM-1401,etc
Third (1964-71)	Integrated circuits (IC)(made of silicon)	Magnetic core as primary storage medium (neon seconds)	Real time system high level (FORTRAN COBOL ALGOL)	 Consume less power Highly sophisticated technology required 	 Data Base management system E.G. NCR-395, B6500, etc.
Fourth (1971-present)	Large scale integrated (LSI) Circuit microprocessor	Semiconductor memory wincher disc (Pico seconds)	Time sharing PASCAL ADA, COBAL -74 FORANIV	 More reliable and portable This generation lead to better communication and resource sharing 	Electronic fund transfer, Distributed system E.g. – Intel 4004 chip, Macintosh
Fifth(present and beyond)	Super large scale integrated (SLSI) chips	Optical disc	Knowledge information processing system	 Parallel processing Intel core microprocessor is implemented Enable mega chips 	Artificial intelligence E.G Robotic

FUNDAMENTAL OF COMPUTERS

QUESTION 1 What is computer?

Answer computer is an electronic Device which perform three basic tasks

, i.e. inputting, processing & outputting.

Question 2 Who is the father of computer?

Answer Charles Babbage.

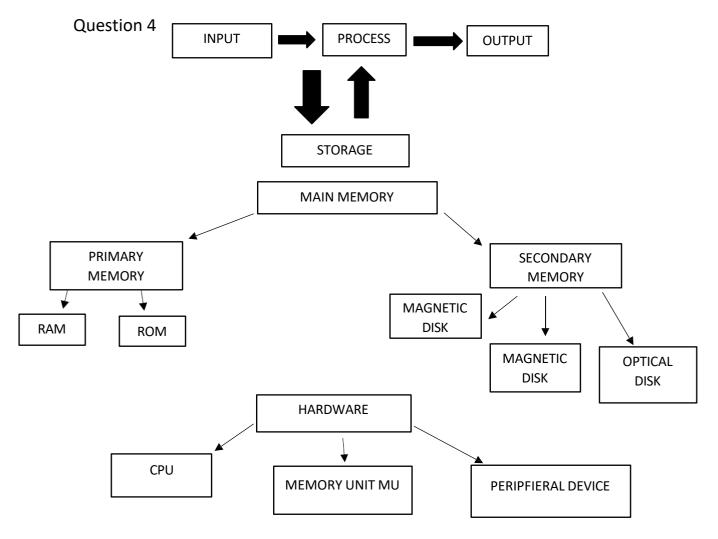
Question 3 Full form of Computer?

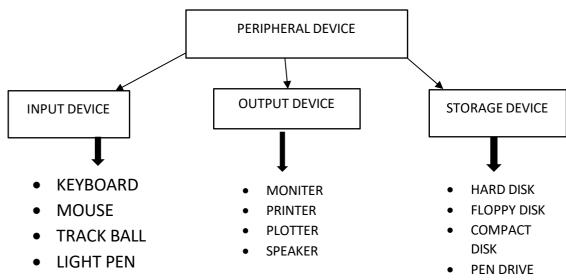
Answer (C) = Commonly , (O) = Operating

(M) = Machine , (P) = particularly

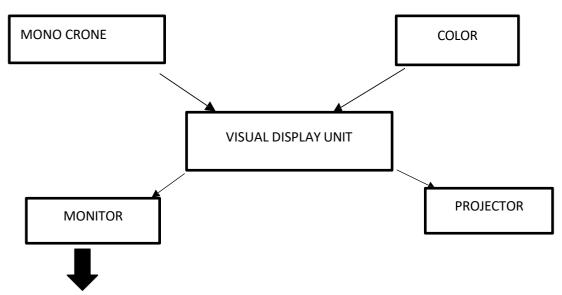
(U) = used , (T) = Trade

(E) = Education , (R) = Research

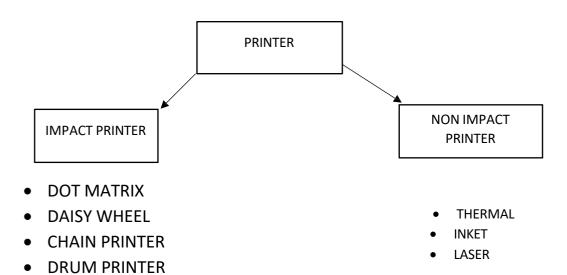




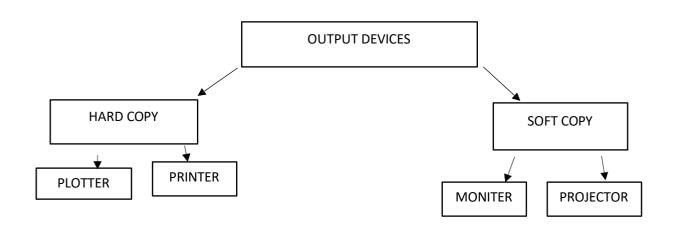
- JOY SICK
- SCANNER
- MAGNATIC STRIPE READER
- BAR CODE READER
- OMR/OCR/MICR

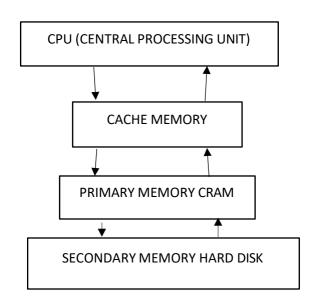


- 1) CATHORE RAYS TUBE (CRT)
- 2) LIQUID CRYSTAL DISPLAY(LCD)
- 3) THIN FILM TRANSISTOR (LFT)
- 4) LIGHIT EMITTING DIODE (LED)



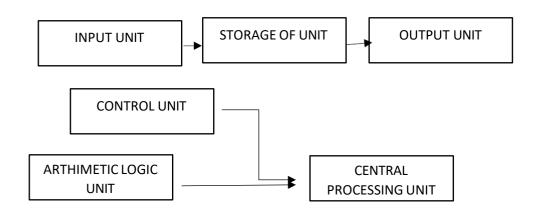
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BASIC COMPUTER OPERATIONS

PROGRAMS AND DATA



1ST GENERATION (1940-1958) – Vacuum Tubes

2nd Generation (1959-1964) – Transistors

3rd Generation (1365-1970) – IC (integrated circuits)

4th Generation (1971-present)-

(LSI) – Large scale integration

(VLSI) – Very large integration

(ULSI) – Ultra large scale integration

5th Generation (Today) – Still under development phase.