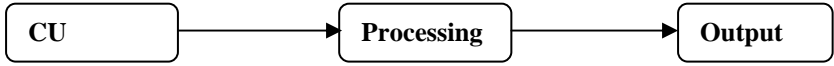


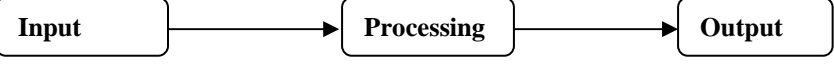


TYPES OF COMPUTERS AND THEIR PARTS

MULTIPLE CHOICE QUESTIONS

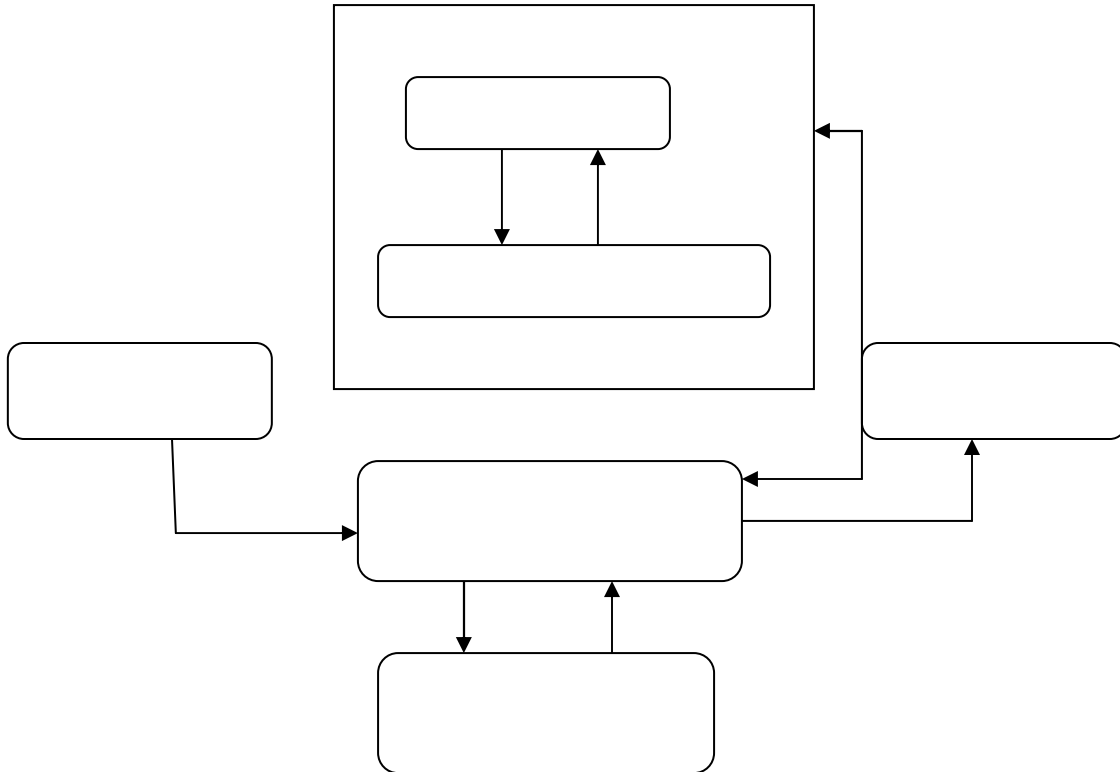
1. What is a computer?
 - a. A programmable electronic device that processes data via instructions to output information for future use.
 - b. Raw facts and figures that has no meaning processed via a set of instructions.
 - c. Meaning attached to data letters, pictures, symbols or sounds.
 - d. All of the above
2. What is **Data** and **Information**:
 - a. Raw facts and figures that has no meaning processed via a set of instructions and Meaning attached to data letters, pictures, symbols or sounds.
 - b. Raw information and meaningful data.
 - c. Symbols, pictures or sounds.
 - d. All of the above.
3. Why do users use computers?
 - a. For their data processing speeds, accuracy, storage capacity and ability to work for long periods.
 - b. Computers are very fast and not very accurate.
 - c. Computers work for long periods without the need for maintenance.
 - d. Computers stores large amounts of data.
4. A computer system consists of both hardware and software.
 - a. True.
 - b. False.
5. Hardware is a set of instructions called programs the computer uses to carry out tasks while Software are all the parts of the computer you can see and touch and is also known as peripherals.
 - a. True
 - b. False.
6. Tasks the computer usually performs are:
 - a. Drawing a picture, typing a letter and perform calculations.
 - b. Word processors, spreadsheets and graphic packages.
 - c. Hardware and software used to process data.
 - d. All of the above.
7. To accomplish a task a computer has to process data in three stages. They are:
 - a. CU → Processing → Output
 - b. Input → ALU → Hardwar
 - c. Hardware → CPU → Software
 - d. Input → Processing → Output
8. The CPU is also known as:
 - a. The Brain
 - b. The Processor
 - c. The Central Processing Unit
 - d. All of the above.
9. What is a machine cycle:
 - a. Data measured in megahertz.
 - b. Data measured in gigahertz.
 - c. A sequence of instructions performed to execute one program instruction.
 - d. All of the above.

TYPES OF COMPUTERS AND THEIR PARTS

10. The speed at which the CPU processes data to convert is measured in what:
- Megahertz
 - Gigahertz
 - Nanoseconds
 - A and B
11. Machine cycles are measured in nanoseconds picoseconds..
- True
 - False.
12. The two smaller units of the Processor are CU and ALU.
- True
 - False
13. Which smaller unit of the CPU directs and coordinates all activities within it and determines the sequence in which instructions are executed, sending instructions sequence to other smaller unit.
- CU
 - ALU
 - PROCESSOR
 - All of the above.
14. Which smaller unit of the CPU performs all arithmetic and logic functions in a computer?
- CU
 - ALU
 - PROCESSOR
 - All of the above.
15. The CPU primary responsibility is the movement of data and instructions from itself to main memory and ALU and back. Arrange the CU execution of instructions in the correct order by placing the execution instructions letter in the box provided:
- Sends data to memory unit after processing.
 - Fetches data required by the instruction from memory.
 - Fetches the instruction from memory.
 - Decode the instruction.
 - Send data and instruction to the ALU for processing
16. Which smaller CPU unit contains registers – temporary storage locations that holds a single instruction or data item needed immediately and frequently.
- CU
 - ALU
 - PROCESSOR
 - All of the above.
17. Program Counter (PC) and Instruction Register (IR) are examples of registers.
- True
 - False
18. Which register example holds the address of the current instruction being processed?
- Program Counter.
 - Instruction Register.
 - Control Unit
 - Arithmetic Logic Unit.

TYPES OF COMPUTERS AND THEIR PARTS

19. Which register example hold the instruction itself?
- Program Counter.
 - Instruction Register.
 - Control Unit
 - Arithmetic Logic Unit.
20. Central Processing Unit, Input Devices, Output Devices, Main Memory, Arithmetic and Logic Unit (ALU), Control Unit (CU), Secondary or Auxilliary Storage Devices/Backing Store/Disk Storage. Use the word to complete the diagram.



21. Main Memory holds data and instructions being processed by the computer and is this memory is directly accessible by the CPU.
- True
 - False.
22. It is difficult to classify computer systems on the basis of their system performance, as newer, smaller computer systems outperform their larger models of yesteryear.
- True
 - False.
23. The different types of computer are:
- Personal Computers (PCs), Laptops and Minicomputers
 - Mainframes, Supercomputers and Tablet PC
 - Electronic Organizers and Palmtop Computers and Embedded Computers
 - ALL OF THE ABOVE.
24. Label the different Types of Computers using: **Supercomputer, Minicomputers, Mainframes, Tablet PC, Electronic Organizers, Palmtop Computers, Embedded Computers, Personal Computers, Laptops, Notebooks, Sub-notebooks.**



[Blank box for labeling]

* used for number crunching scientific simulations, research and developments in energy, space exploration, medicine and industry.

* designed to process complex scientific applications.

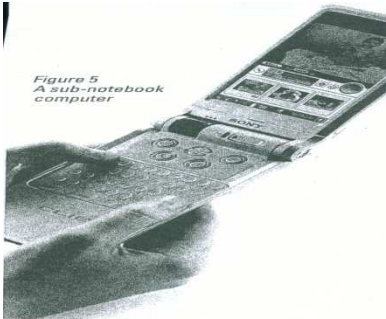
* are the most expensive computers in the world costing millions of dollars

TYPES OF COMPUTERS AND THEIR PARTS



Personal Computer also known as:

- * comes in different size, shapes and colours.
- * used by one person at a time.
- * consists of Monitor, System Unit, Mouse, Keyboard.
- * designed to perform input, control, arithmetic/logic, output and storage functions.
- * executes software program instructions to perform a wide variety of tasks.

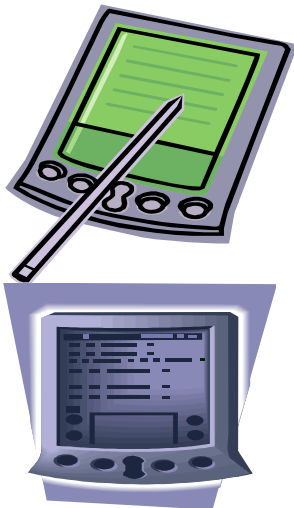


*Figure 5
A sub-notebook
computer*

- Portable version of PC with flat LCD monitor.
- Weighs 1-4 kilograms.
- There are two types: Notebooks and Sub-Notebooks.
- **Notebook:** weighs 2-4 kilogram.
- Is roughly the size of a thick large notebook (35 * 25 * 4 cm)
- Touch sensitive pad serves as mouse.
- Tucked in briefcases.
- Gets its power from electrical outlet or rechargeable batteries
- Just as powerful as PCs but cost more.
- **Sub-Notebooks:** weighs 1/2 kilogram.
- Fits in a large jacket pocket.
- Small colour screen, keyboard without mouse function.
- Performs many function of notebooks to a lesser degree



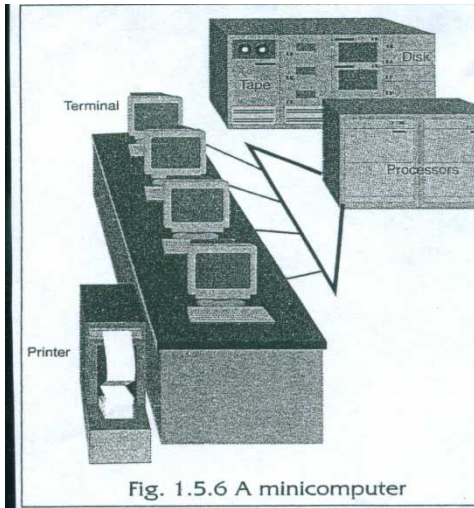
- Looks like a notebook.
- Data is entered via keyboard, touch screen or digitizing tablet with a special pen called a stylus



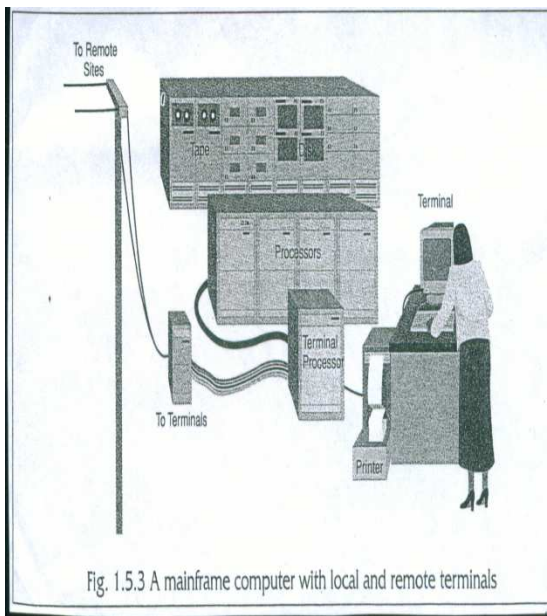
- Fits in the palm of your hand, shirt pocket.
- Less powerful than Notebooks & sub-notebooks.
- Weighs 300 grams on average.
- Small keyboard, palm size screen with special pen.
- More powerful than electronic organizers.

- Used mainly to store appointments, addresses, and telephone numbers and "to do lists".

TYPES OF COMPUTERS AND THEIR PARTS



- Cost, storage and processing capabilities between a PC and Mainframe.
- Used in small manufacturing plants, research labs and businesses.
- Handles the processing needs of multiple users.
- Many users share access to a central hardware through stations called Terminals.
- Supports dozens of terminals
- A terminal consists of keyboard, monitor, wire that connects terminal to Computer system.



- Powerful and expensive computers.
- Has faster processing speeds and greater storage capacity than typical mini.
- Handles more than a thousand users at a time.
- Found in large organizations such as banks, insurance companies, and government agencies.
- Performs tasks that require a lot of computational power, bulk data processing such as censuses, industry/consumer statistics and bank transactions.
- Examples include IBM zSeries the most powerful mainframe available.



- Special purpose computer used inside a device for a specific function.
- Has a single microprocessor board with programs stored in ROM.
- Connect to sensors- devices which detects changes in environment such as lights, temperature or pressure
- Hardware output devices convert electrical control signal into physical action.
- Examples as cameras, cars, clocks, microwaves.

25. Computers are classified broadly into five generations based on the electronic component used to build them. **Label the generation, its main characteristic, computers built in the generation, list the component used to build its computers and the software used to programs it from the list below:**

First Generation (1945-1956): Vacuum tube\valve, unreliable, machine language, Harvard Mark 1 and ENIAC.

Second Generation (1956-1963): Transistors, faster, smaller, energy-efficient and more reliable computers, assembly language, IBM 1400 & 1600 and UNIVAC III.

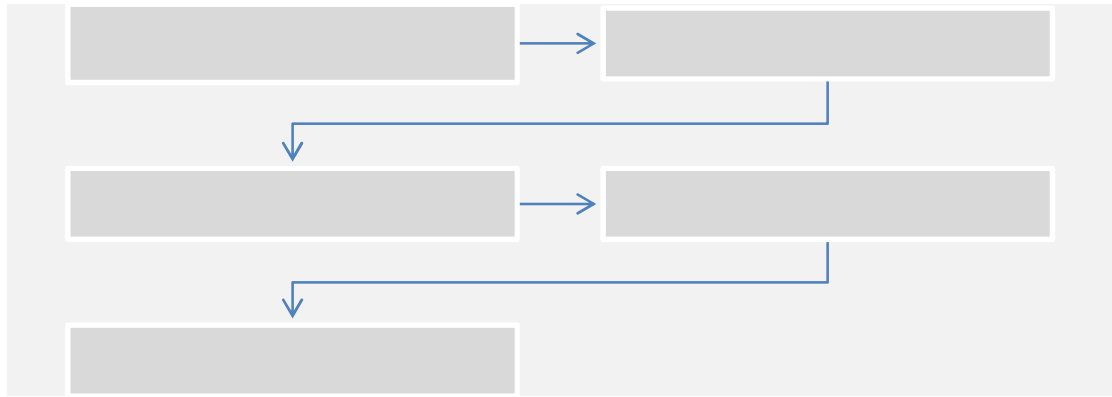
Third Generation (1964- 1970): Integrate Circuit (IC), more faster, smaller, energy-efficient and reliable computers, high-level languages, UNIVAC 9000 AND NCR century series.

Fourth Generation (1971-present): LSI, ULSI, IC, cheaper computers, increased processing capabilities, IBM system 3090 and RISC 6000.

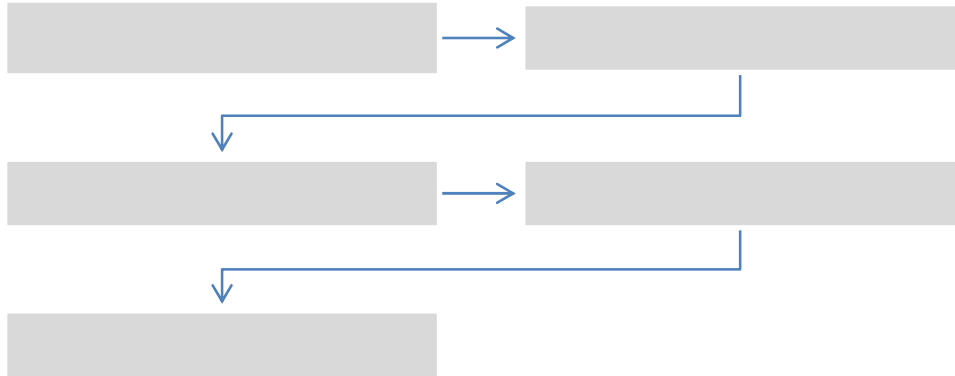
Fifth Generation (present – future): computer mimic human abilities, artificial intelligence (AI), parallel processing, performs multiple simultaneous operations using a single microprocessor chip.

TYPES OF COMPUTERS AND THEIR PARTS

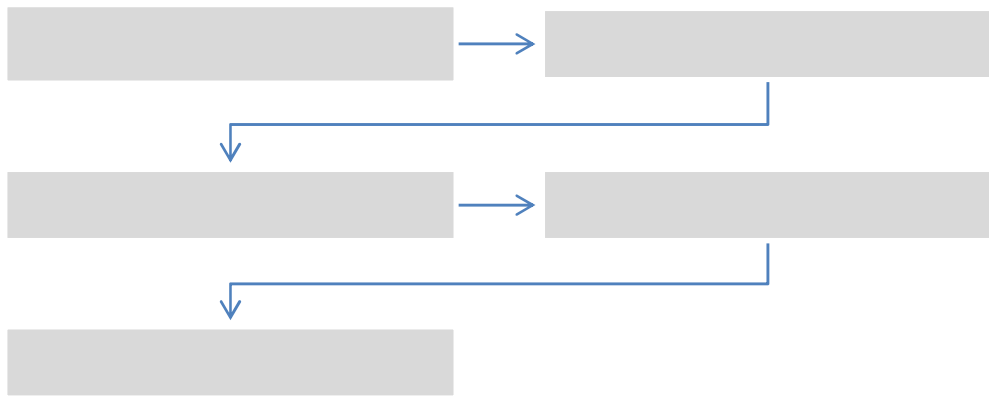
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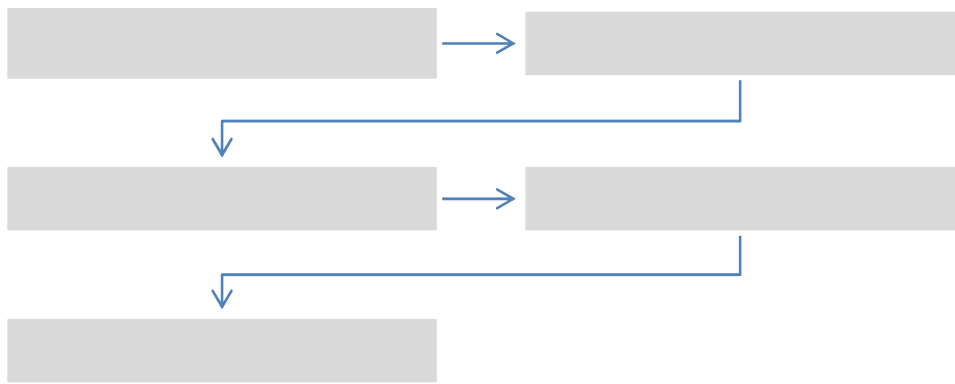
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3.



4.



5.

